

```
> #Nikita John, Assignment 19
  #Okay to post; November 8th 2021
> #Maple code for Lecture 19
```

```
Help19 := proc ( ) :
    print( `SIRSDemo(N,IN,gamma,nu,h,A),e.g. SIRSDemo(100,20,1, 1,0.01, 10); EquPts(F,var),
    StEquPts(F,var) , IsStable(M), RandNice(var,K) ` ) :end:
with(LinearAlgebra) :
```

#RandNice(var,K): A random transformation in the set of variables var where each component is a product of two affine-linear expressions.

#To generate examples

#Try: RandNice([x,y],100);

```
RandNice := proc (var, K) local ra, i :
```

```
ra := rand(1 ..K) :
```

```
[seq( (ra( ) - add(ra( ) * var[i], i = 1 ..nops(var) ) ) * (ra( ) - add(ra( ) * var[i], i = 1
..nops(var) ) ) , i = 1 ..nops(var) ) ] :
```

```
end:
```

#IsStable(M): inputs a numeric matrix M (given as a list of lists M) and decides whether all its eigenvalues have real negative part. Try

```
#IsStable(Matrix([[1,-1],[-1,1]]));
```

```
IsStable := proc (M) local Ei1, i :
```

```
Ei1 := Eigenvalues(evalf(Matrix(M) ) ) :
```

```
evalb(max(seq(coeff(Ei1[i], 1, 0), i = 1 ..nops(M) ) ) < 0) :
```

```
end:
```

#StEquPts(F,var): All the Stable equilibrium points of the dynamical system $x'(t)=F(x(t))$ where F is the underlying transformation in the set of variables var. For example

#to for the SIRS model with parameters beta,gamma,nu,N, try:

```
#StEquPts(SIRS(s,i,1,1,0.01,100),[s,i]);
```

```
StEquPts := proc (F, var) local d, pt, E, S, J, i, j, J0, i1, Ei0 :
```

```
d := nops(var) :
```

```
if nops(F) ≠ d then
```

```
RETURN(FAIL) :
```

```
fi:
```

```
E := EquPts(F, var) :
```

```
S := { } :
```

```
J := [seq( [seq(diff(F[i], var[j]), j = 1 ..d) ], i = 1 ..d) ] : #J is the general Jacobian
```

```

for pt in E do
  J0 := evalf( subs( {seq(var[i1] = pt[i1], i1 = 1 ..d)}, J) ) :
  if IsStable(J0) then
    S := S union {pt} :
  fi:
od:

S :
end:

```

```

#EquPts(F,var): All the equilibrium points of the dynamical system  $x'(t)=F(x(t))$  where F is
the underlying transformation in the set of variables var. For example
#to for the SIRS model with parameters beta,gamma,nu,N, try:
#EquPts(SIRS(s,i,beta,gamma,nu,N),[s,i]);
EquPts :=proc(F, var) local sol, i1 :
if nops(F)  $\neq$  nops(var) then
  RETURN(FAIL) :
fi:

sol := {solve( {op(F)}, {op(var)} )} :

{seq(subs(sol[i1], var), i1 = 1 ..nops(sol))} :
end:

```

```

SIRSdemo :=proc(N, IN, gamma, nu, h, A) local L, beta, i :
  print( `This is a numerical demonstration of the R0 phenomenon in the SIRS model using
  discretization with mesh size=`, h, `and letting it run until time t=`, A ) :
  print( `with population size`, N, `and fixed parameters nu=`, nu, `and gamma=`, gamma ) :
  print( `where we change beta from 0.2*nu/N to 4*nu/N ` ) :
  print( `Recall that the epidemic will persist if beta exceeds nu/N, that in this case is`, nu/N ) :
  print( `We start with`, IN, `infected individuals, 0 removed and hence`, N-IN, `susceptible` ) :
  print( `We will show what happens once time is close to`, A ) :
  for i from 1 by 2 to 40 do
    beta := i/10 * (nu/N) :
    print( `beta is`, i/10, `times the threshold value` ) :
    L := Dis2(SIRS(s, i, beta, gamma, nu, N), s, i, [N-IN, IN], h, A) :
    print( `the long-term behavior is` ) :
    print( [op(nops(L) - 3 ..nops(L), L)] ) :
  od:

end:

#OLD STUFF
Help18 :=proc( ) : print( ` Dis2(F,x,y,pt,h,A), SIRS(s,i,beta,gamma,nu,N) ` ) end:

```

#SIRS(s,i,beta,gamma,nu,N): The SIRS dynamical model with parameters beta,gamma, nu,N (see section 6.6 of Edelstein-Keshet), s is the number of

#Susceptibles, i is the number of infected, (the number of removed is given by N-s-i). N is the total population

SIRS :=proc(s, i, beta, gamma, nu, N) : [-beta*s*i + gamma*(N-s-i), beta*s*i-nu*i] :
end:

#Dis2(F,x,y,pt,h,A): The approximate orbit of the Dynamical system approximating the 2D for the autonomous continuous dynamical process

#dx/dt=F[1](x(t),y(t))

#dy/dt=F[2](x(t),y(t)) , x(0)=pt[1], y(0)=pt[2] with mesh size h from t=0 to t=A

Dis2 :=proc(F, x, y, pt, h, A) **local** L, i :

*L := Orb2([x + h * F[1], y + h * F[2]], x, y, pt, 0, trunc(A/h)) :*

*L := [seq([i * h, [L[i][1], L[i][2]]], i = 1 ..nops(L))] :*

end:

#OLD STUFF

Help17 :=proc() :print(` HW3g(u,v,w,M), HW2g(u,v,M) `) **end:**

#HW3g(u,v,w,M): The Hardy-Weinberg unerlying transformation with (u,v,w),

GENERALIZED Eqs. with the 3 by 3 matrix M (53a,53b,53c) in Edelestein-Keshet Ch. 3

#Based on Anne Somalwar's solution of the bonus problem from hw15, see the end of

#from <https://sites.math.rutgers.edu/~zeilberg/Bio21/HW15posted/hw15AnneSomalwar.pdf>

HW3g :=proc(u, v, w, M) **local** tot, LI :

LI := [

*M[1][1]*u^2 + (M[1][2] + M[2][1])/2 * u * v + M[2][2] * (1/4) * v^2,*

*(M[1][2] + M[2][1])/2 * u * v + (M[1][3] + M[3][1]) * u * w + M[2][2]/2 * v^2
+ (M[2][3] + M[3][2])/2 * v * w,*

*M[2][2] * 1/4 * v^2 + (M[2][3] + M[3][2])/2 * v * w + M[3][3] * w^2] :*

tot := LI[1] + LI[2] + LI[3] :

[LI[1]/tot, LI[2]/tot, LI[3]/tot] :

end:

#HW2g(u,v,M): The Generalized Hardy-Weinberg unerlying transformation with (u,v), M is the survival matrix. Based on Ann Somalwar's HW3g(u,v,w) (only retain the first two

components and replace w by 1-u-v)
HW2g := **proc**(u, v, M) **local** LI, w :
 LI := **HW3g**(u, v, w, M) :
 normal(subs(w = 1 - u - v, [LI[1], LI[2]])) :
end:

#OLD STUFF

Help15 := **proc**() : print(` HW3(u,v,w), HW2(u,v) , Dis1(F,x,x0,h,A), ToSys(k,z,f,INI) `) :**end**:

#ToSys(k,z,f,INI): converts the kth order difference equation $x(n)=f(x[n-1],x[n-2],\dots,x[n-k])$ to a first-order system
#x1(n)=F(x1(n-1),x2(n-1), ...,xk(n-1))
#x2(n)=x1(n-1)
#...

#xk(n)=x[k-1](n-1). It gives the underlying transformation phrased in terms of $z[1],\dots,z[k]$, followed by the initial conditions. Try:
#ToSys:=proc(2,z,z[1]+z[2],[1,1])
ToSys :=proc(k, z, f, INI) local i :
[f, seq(z[i - 1], i = 2 ..k)], INI :
end:

#HW3(u,v,w): The Hardy-Weinberg unerlying transformation witu (u,v,w), Eqs. (53a,53b, 53c) in Edelestein-Keshet Ch. 3
HW3 :=proc(u, v, w) : $[u^2 + u * v + (1/4) * v^2, u * v + 2 * u * w + 1/2 * v^2 + v * w, 1/4 * v^2 + v * w + w^2]$:**end**:

#HW2(u,v): The Hardy-Weinberg unerlying transformation witu (u,v,w), Eqs. (53a,53b,53c) in Edelestein-Keshet Ch. 3 using the fact that $u + v + w = 1$
HW2 :=proc(u, v) : expand($[u^2 + u * v + (1/4) * v^2, u * v + 2 * u * (1 - u - v) + 1/2 * v^2 + v * (1 - u - v)]$) :**end**:

#Dis1(F,x,x0,h,A): The approximate orbit of the Dynamical system approximating the 1D for the autonomous continuous dynamical process $dy/dt=F(y(t))$, $y(0)=y0$ with mesh size h from $t=0$ to $t=A$
Dis1 :=proc(F, x, x0, h, A) local L, i :
L := Orb(x + h * F, x, x0, 0, trunc(A/h)) :

```
L := [seq([i*h, L[i]], i = 1 ..nops(L))]:
```

```
end:
```

```
##old stuff
```

```
#M13.txt: Maple code for Lecture 13 of Dynamical Modesl in Biology, Fall 2021 (taught by Dr. Z.)
```

```
Help13 :=proc( ):
```

```
print(`RT2(x,y,d,K), Orb2(F,x,y,pt0,K1,K2), FP2(F,x,y), SFP2(F,x,y), PlotOrb2(L), FP2drz(F,x,y), SFP2drz(F,x,y)`) :end:
```

```
#RT2(x,y,d,K): A random rational transformation of degree d from R^2 to R^2 with postiive integer coefficients from 1 to K The inputs are variables x and y and
```

```
#the output is a pair of expressions of (x,y) representing functions. It is for generating examples
```

```
#Try:
```

```
#RT2(x,y,2,10);
```

```
RT2 :=proc(x, y, d, K) local ra, i, j, f, g:
```

```
ra := rand(1 ..K) : #random integer from -K to K
```

```
f := add(add(ra( ) * x^i * y^j, j = 0 ..d-i), i = 0 ..d) / add(add(ra( ) * x^i * y^j, j = 0 ..d-i), i = 0 ..d) :
```

```
g := add(add(ra( ) * x^i * y^j, j = 0 ..d-i), i = 0 ..d) / add(add(ra( ) * x^i * y^j, j = 0 ..d-i), i = 0 ..d) :
```

```
[f, g] :
```

```
end:
```

```
#Orb2(F,x,y,pt,K1,K2): Inputs a mapping F=[f,g] from R^2 to R^2 where f and g describe functions of x and y, an initial point pt0=[x0,y0]
```

```
#outputs the orbit starting at discrete time K1 and ending in discrete time K2. Try
```

```
#F:=RT2(x,y,2,10);
```

```
#Orb2(F,x,y,[1.1,1.2],1000,1010);
```

```
Orb2 :=proc(F, x, y, pt0, K1, K2) local pt, L, i:
```

```
pt := pt0 :
```

```
for i from 1 to K1-1 do
```

```
pt := subs( {x = pt[1], y = pt[2]}, F) :
```

```
od:
```

```
L := [ ]:
```

```
for i from K1 to K2 do
```

```
L := [op(L), pt] :
```

```
pt := normal(subs( {x = pt[1], y = pt[2]}, F)) :
```

```
od:
```

```
L :
```

end:

#FP2(F,x,y): The list of fixed points of the transformation [x,y]->F. Try

#FP2([x-y,x=y],x,y);

FP2 := proc(F, x, y) local L, i :

L := [solve({F[1]=x, F[2]=y}, {x, y})] :

[seq(subs(L[i], [x, y]), i = 1 ..nops(L))] :

end:

#SFP2(F,x,y): The list of Stable fixed points of the transformation [x,y]->F. Try

*#SFP2([(1+x)/(1+y), (1+7*y)/(4+x)],x,y);*

SFP2 := proc(F, x, y) local L, J, S, J0, i, pt, EV :

L := evalf(FP2(F, x, y)) :

*#F is the list of ALL fixed points of the transformation [x,y]->F using the previous procedure
FP2(F,x,y), but since we are interested in numbers we take the floating point version using
evalf*

J := Matrix(normal([diff(F[1], x), diff(F[1], y), diff(F[2], x), diff(F[2], y)])) :

*#J is the Jacobian matrix in general (in terms of the variables x and y). Note that J is a
SYMBOLIC matrix featuring variables x and y*

S := []: #S is the list of stable fixed points that starts out empty

for i from 1 to nops(L) do *#we examine it case by case*

pt := L[i] : #pt is the current fixed point to be examined

J0 := subs({x=pt[1], y=pt[2]}, J) :

#J0 is the NUMERICAL matrix obtained by plugging-in the examined fixed pt

EV := Eigenvalues(J0) :

We used Maple's command Eigenvalues to find the eigenvalues of this 2 by 2 matrix

if *abs(EV[1]) < 1 and abs(EV[2]) < 1* **then**

S := [op(S), pt] :

*#If both eigenvalues have absolute value less than 1 it means that they are stable, so we
append the examined fixed point, pt, to the list of fixed points*

fi:

od:

S : #the output is S

end:

###added Oct. 17, 20221

with(plots) :

```
PlotOrb1 :=proc(L) local i, d :
```

```
d := textplot([L[1], 0, 0]) :
```

```
for i from 2 to nops(L) do
```

```
d := d, textplot([L[i], 0, i-1]) :
```

```
od:
```

```
display(d) :
```

```
end:
```

```
PlotOrb2 :=proc(L) local i, d :
```

```
d := textplot([op(L[1]), 0]) :
```

```
for i from 2 to nops(L) do
```

```
d := d, textplot([op(L[i]), i-1]) :
```

```
od:
```

```
display(d) :
```

```
end:
```

```
###End added Oct. 17, 20221
```

```
###old stuff
```

```
#M11.txt: Maple code for Lecture 11 of Dynamical Models in Biology taught by Dr. Z.
```

```
Help11 :=proc ( ) : print(`SFPe(f,x), Orbk(k,z,f,INI,K1,K2)`) :end:
```

```
    #SFPe(f,x): The set of fixed points of  $x \rightarrow f(x)$  done exactly (and allowing symbolic parameters), followed by the condition of stability (if it is between -1 and 1 it is stable)
```

```
#Try: FPe( $k*x*(1-x)$ ,x);
```

```
#VERSION OF Oct. 12, 2021 (avoiding division by 0)
```

```
SFPe :=proc(f, x) local f1, L, i, M:
```

```
f1 := normal(diff(f, x)) :
```

```
L := [solve(numer(f-x), x)] :
```

```
M := [ ] :
```

```
for i from 1 to nops(L) do
```

```
if subs(x=L[i], denom(f1))  $\neq$  0 then
```

```
M := [op(M), [L[i], normal(subs(x=L[i], f1))]] :
```

```
fi:
```

```
od:
```

```
M:
```

```
end:
```

```
#Added after class
```

```

#Orbk(k,z,f,INI,K1,K2): Given a positive integer k, a letter (symbol), z, an expression f of z
[1], ..., z[k] (representing a multi-variable function of the variables z[1],...,z[k]

#a vector INI representing the initial values [x[1],..., x[k]], and (in applications) positive
integres K1 and K2, outputs the

#values of the sequence starting at n=K1 and ending at n=K2. of the sequence satisfying the
difference equation
##x[n]=f(x[n-1],x[n-2],..., x[n-k+1]):

#This is a generalization to higher-order difference equation of procedure Orb(f,x,x0,K1,K2)
. For example
#Orbk(1,z,5/2*z[1]*(1-z[1]),[0.5],1000,1010); should be the same as
#Orb(5/2*z[1]*(1-z[1]),z[1],[0,5],1000,1010);
#Try:
#Orbk(2,z,(5/4)*z[1]-(3/8)*z[2],[1,2],1000,1010);
Orbk :=proc(k, z, f, INI, K1, K2) local L, i, newguy :
L := INI: #We start out with the list of initial values

if not (type(k, integer) and type(z, symbol) and type(INI, list) and nops(INI) = k and type(K1,
integer) and type(K2, integer) and K1 > 0 and K2 > K1) then
#checking that the input is OK
print(`bad input`):
RETURN(FAIL):
fi:

while nops(L) < K2 do
newguy := subs( {seq(z[i]=L[-i], i=1..k)}, f):
#Using what we know about the value yesterday, the day before yesterday, ... up to k days
before yesterday we find the value of the sequence today
L := [op(L), newguy]: #we append the new value to the running list of values of our sequence
od:

[op(K1..K2, L)]:

end:

####STAFT FROM M9.txt
#M9.txt: Maple Code for "Dynamical models in Biology" (Math 336) taught by Dr. Z., Lecture 9

Help9 :=proc( ):
print(`Orb(f,x,x0,K1,K2), Orb2D(f,x,x0,K), FP(f,x), SFP(f,x), Comp(f,x)`):end:

#Orb(f,x,x0,K1,K2): Inputs an expression f in x (desccribing) a function of x, an initial point,
x0, and a positive integer K, outputs
#the values of x[n] from n=K1 to n=K2. Try: where x[n]=f(x[n-1]), . Try:
#Orb(2*x*(1-x),x,0.4,1000,2000);

```


$Orb := \mathbf{proc}(f, x, x0, K1, K2) \mathbf{local} x1, i, L :$

$x1 := x0 :$

for i **from** 1 **to** $K1$ **do**

$x1 := \mathit{subs}(x=x1, f) :$

#we don't record the first values of $K1$, since we are interested in the long-time behavior of the orbit

od:

$L := [x1] :$

for i **from** $K1$ **to** $K2$ **do**

$x1 := \mathit{subs}(x=x1, f) :$ *#we compute the next member of the orbit*

$L := [op(L), x1] :$ *#we append it to the list*

od:

$L :$ *#that's the output*

end:

#Orb2D(f,x,x0,K): 2D version of Orb(f,x,x0,0,K), just for illustration

$Orb2D := \mathbf{proc}(f, x, x0, K) \mathbf{local} L, L1, i :$

$L := Orb(f, x, x0, 0, K) :$

$L1 := [[L[1], 0], [L[1], L[2]], [L[2], L[2]]] :$

for i **from** 3 **to** $nops(L)$ **do**

$L1 := [op(L1), [L[i-1], L[i]], [L[i], L[i]]] :$

od:

$L1 :$

end:

#FP(f,x): The list of fixed points of the map $x \rightarrow f$ where f is an expression in x . Try:

*#FP(2*x*(1-x),x);*

$FP := \mathbf{proc}(f, x)$

$\mathit{evalf}([solve(f=x, x)]) :$

end:

#SFP(f,x): The list of stable fixed points of the map $x \rightarrow f$ where f is an expression in x . Try:

*#SFP(2*x*(1-x),x);*

$SFP := \mathbf{proc}(f, x) \mathbf{local} L, i, f1, pt, Ls :$

$L := FP(f, x) :$ *#The list of fixed points (including complex ones)*

$Ls := [] :$ *#Ls is the list of stable fixed points, that starts out as the empty list*

$f1 := \mathit{diff}(f, x) :$ *#The derivative of the function f w.r.t. x*

for i **from** 1 **to** $nops(L)$ **do**

$pt := L[i] :$

if abs(subs(x=pt, f1)) < 1 **then**

$Ls := [op(Ls), pt]$: # if pt, is stable we add it to the list of stable points

fi:

od:

Ls : #The last line is the output

end:

#Comp(f,x): f(f(x))

Comp := **proc**(f, x) : normal(subs(x=f, f)) : **end**:

##added Oct. 17, 2021

#FP2drz(F,x,y): The list of fixed points of the transformation $[x,y] \rightarrow F$. Dr. Z.'s way

#FP2([x-y, x+y], x, y);

FP2drz := **proc**(F, x, y) **local** eq, i, L, S1 :

eq := [numer(F[1]-x), numer(F[2]-y)] :

$L := Groebner[Basis](eq, plex(x, y))$:

$S1 := evalf([solve(L[1], y)])$:

[seq([solve(subs(y=S1[i], L[2]), x), S1[i]), i = 1 ..nops(S1)]] :

end:

#SFP2drz(F,x,y): The list of Stable fixed points of the transformation $[x,y] \rightarrow F$. Try

#SFP2drz([(1+x)/(1+y), (1+7*y)/(4+x)], x, y);

SFP2drz := **proc**(F, x, y) **local** L, J, S, J0, i, pt, EV :

$L := FP2drz(F, x, y)$:

#F is the list of ALL fixed points of the transformation $[x,y] \rightarrow F$ using the previous procedure FP2(F,x,y), but since we are interested in numbers we take the floating point version using evalf

$J := Matrix(normal([[diff(F[1], x), diff(F[2], x)], [diff(F[1], y), diff(F[2], y)]]))$:

#J is the Jacobian matrix in general (in terms of the variables x and y). Note that J is a SYMBOLIC matrix featuring variables x and y

$S := []$: #S is the list of stable fixed points that starts out empty

for i **from** 1 **to** nops(L) **do** #we examine it case by case

pt := L[i]: #pt is the current fixed point to be examined

$J0 := subs(\{x=pt[1], y=pt[2]\}, J)$:

#J0 is the NUMERICAL matrix obtained by plugging-in the examined fixed pt

EV := Eigenvalues(J0) :

We used Maple's command Eigenvalues to find the eigenvalues of this 2 by 2 matrix

if *abs(EV[1]) < 1 and abs(EV[2]) < 1 then*

S := [op(S), pt] :

#If both eigenvalues have absolute value less than 1 it means that they are stable, so we append the examined fixed point, pt, to the list of fixed points

fi:

od:

S : #the output is S

end:

> *#1 (i)*

SIRSdemo(1000, 200, 3, 1, 0.01, 10);

When beta = 0.3 · N/nu, the number of removed individuals is 2. When beta = 0.9 · N/nu, the number of removed individuals is 8. When beta = 3.9 · N/nu, the number of removed individuals is 40 people

This is a numerical demonstration of the R0 phenomenon in the SIRS model using discretization with mesh size=, 0.01, and letting it run until time t=, 10

with population size, 1000, and fixed parameters nu=, 1, and gamma=, 3

*where we change beta from 0.2*nu/N to 4*nu/N*

Recall that the epidemic will persist if beta exceeds nu/N, that in this case is, $\frac{1}{1000}$

We start with , 200, infected individuals, 0 removed and hence, 800, susceptible

We will show what happens once time is close to, 10

beta is, $\frac{1}{10}$, times the threshold value

the long-term behavior is

[[9.98, [998.9666995, 0.9909989667]], [9.99, [998.9666995, 0.9909989667]], [10.00, [998.9666995, 0.9909989667]], [10.01, [998.9666995, 0.9909989667]]]

beta is, $\frac{3}{10}$, times the threshold value

the long-term behavior is

[[9.98, [996.7009881, 2.978970309]], [9.99, [996.7009881, 2.978970309]], [10.00, [996.7009881, 2.978970309]], [10.01, [996.7009881, 2.978970309]]]

beta is, $\frac{1}{2}$, times the threshold value

the long-term behavior is

[[9.98, [994.1715221, 4.974854288]], [9.99, [994.1715221, 4.974854288]], [10.00, [994.1715221, 4.974854288]], [10.01, [994.1715221, 4.974854288]]]

beta is, $\frac{7}{10}$, times the threshold value

the long-term behavior is

[[9.98, [991.3807432, 6.978577656]], [9.99, [991.3807432, 6.978577656]], [10.00, [991.3807432, 6.978577656]], [10.01, [991.3807432, 6.978577656]]]

beta is, $\frac{9}{10}$, times the threshold value

the long-term behavior is

[[9.98, [988.3315033, 8.990054852]], [9.99, [988.3315033, 8.990054852]], [10.00, [988.3315033, 8.990054852]], [10.01, [988.3315033, 8.990054852]]]

beta is, $\frac{11}{10}$, times the threshold value

the long-term behavior is

[[9.98, [985.0270559, 11.00918827]], [9.99, [985.0270559, 11.00918827]], [10.00, [985.0270559, 11.00918827]], [10.01, [985.0270559, 11.00918827]]]

beta is, $\frac{13}{10}$, times the threshold value

the long-term behavior is

[[9.98, [981.4710448, 13.03586861]], [9.99, [981.4710448, 13.03586861]], [10.00, [981.4710448, 13.03586861]], [10.01, [981.4710448, 13.03586861]]]

beta is, $\frac{3}{2}$, times the threshold value

the long-term behavior is

[[9.98, [977.6674922, 15.06997519]], [9.99, [977.6674922, 15.06997519]], [10.00, [977.6674922, 15.06997519]], [10.01, [977.6674922, 15.06997519]]]

beta is, $\frac{17}{10}$, times the threshold value

the long-term behavior is

[[9.98, [973.6207848, 17.11137641]], [9.99, [973.6207848, 17.11137641]], [10.00, [973.6207848, 17.11137641]], [10.01, [973.6207848, 17.11137641]]]

beta is, $\frac{19}{10}$, times the threshold value

the long-term behavior is

[[9.98, [969.3356593, 19.15993017]], [9.99, [969.3356593, 19.15993017]], [10.00, [969.3356593, 19.15993017]], [10.01, [969.3356593, 19.15993017]]]

beta is, $\frac{21}{10}$, times the threshold value

the long-term behavior is

[[9.98, [964.8171858, 21.21548438]], [9.99, [964.8171858, 21.21548438]], [10.00,

[964.8171858, 21.21548438]], [10.01, [964.8171858, 21.21548438]]]

beta is, $\frac{23}{10}$, times the threshold value

the long-term behavior is

[[9.98, [960.0707508, 23.27787743]], [9.99, [960.0707508, 23.27787743]], [10.00, [960.0707508, 23.27787743]], [10.01, [960.0707508, 23.27787743]]]

beta is, $\frac{5}{2}$, times the threshold value

the long-term behavior is

[[9.98, [955.1020392, 25.34693877]], [9.99, [955.1020392, 25.34693877]], [10.00, [955.1020392, 25.34693877]], [10.01, [955.1020392, 25.34693877]]]

beta is, $\frac{27}{10}$, times the threshold value

the long-term behavior is

[[9.98, [949.9170149, 27.42248950]], [9.99, [949.9170149, 27.42248950]], [10.00, [949.9170149, 27.42248950]], [10.01, [949.9170149, 27.42248950]]]

beta is, $\frac{29}{10}$, times the threshold value

the long-term behavior is

[[9.98, [944.5219011, 29.50434292]], [9.99, [944.5219011, 29.50434292]], [10.00, [944.5219011, 29.50434292]], [10.01, [944.5219011, 29.50434292]]]

beta is, $\frac{31}{10}$, times the threshold value

the long-term behavior is

[[9.98, [938.9231598, 31.59230516]], [9.99, [938.9231598, 31.59230516]], [10.00, [938.9231598, 31.59230516]], [10.01, [938.9231598, 31.59230516]]]

beta is, $\frac{33}{10}$, times the threshold value

the long-term behavior is

[[9.98, [933.1274712, 33.68617582]], [9.99, [933.1274712, 33.68617582]], [10.00, [933.1274712, 33.68617582]], [10.01, [933.1274712, 33.68617582]]]

beta is, $\frac{7}{2}$, times the threshold value

the long-term behavior is

[[9.98, [927.1417118, 35.78574860]], [9.99, [927.1417118, 35.78574860]], [10.00, [927.1417118, 35.78574860]], [10.01, [927.1417118, 35.78574860]]]

beta is, $\frac{37}{10}$, times the threshold value

the long-term behavior is

[[9.98, [920.9729335, 37.89081195]], [9.99, [920.9729335, 37.89081195]], [10.00, [920.9729335, 37.89081195]], [10.01, [920.9729335, 37.89081195]]]

beta is, $\frac{39}{10}$, times the threshold value

the long-term behavior is

[[9.98, [914.6283415, 40.00114971]], [9.99, [914.6283415, 40.00114971]], [10.00, [914.6283415, 40.00114971]], [10.01, [914.6283415, 40.00114971]]]

(1)

> #1 (ii)

`SIRSdemo(1000, 200, 3, 2, 0.01, 10);`

When $\beta = 0.3 \cdot N\nu$, the number of removed individuals is 3. When $\beta = 0.9 \cdot N\nu$, the number of removed individuals is 9. When $\beta = 3.9 \cdot N\nu$, the number of removed individuals is 40 people

This is a numerical demonstration of the R0 phenomenon in the SIRS model using discretization with mesh size =, 0.01, and letting it run until time t =, 10

with population size, 1000, and fixed parameters $\nu =, 2$, and $\gamma =, 3$

where we change beta from $0.2 \cdot \nu/N$ to $4 \cdot \nu/N$

Recall that the epidemic will persist if beta exceeds ν/N , that in this case is, $\frac{1}{500}$

We start with , 200, infected individuals, 0 removed and hence, 800, susceptible

We will show what happens once time is close to, 10

beta is, $\frac{1}{10}$, times the threshold value

the long-term behavior is

[[9.98, [998.9334028, 0.9819978668]], [9.99, [998.9334028, 0.9819978668]], [10.00, [998.9334028, 0.9819978668]], [10.01, [998.9334028, 0.9819978668]]]

beta is, $\frac{3}{10}$, times the threshold value

the long-term behavior is

[[9.98, [996.4021571, 2.957935239]], [9.99, [996.4021571, 2.957935239]], [10.00, [996.4021571, 2.957935239]], [10.01, [996.4021571, 2.957935239]]]

beta is, $\frac{1}{2}$, times the threshold value

the long-term behavior is

[[9.98, [993.3444243, 4.949667221]], [9.99, [993.3444243, 4.949667221]], [10.00, [993.3444243, 4.949667221]], [10.01, [993.3444243, 4.949667221]]]

beta is, $\frac{7}{10}$, times the threshold value

the long-term behavior is

[[9.98, [989.7667603, 6.956997143]], [9.99, [989.7667603, 6.956997143]], [10.00,

[989.7667603, 6.956997143]], [10.01, [989.7667603, 6.956997143]]]

beta is, $\frac{9}{10}$, times the threshold value

the long-term behavior is

[[9.98, [985.6773407, 8.979679729]], [9.99, [985.6773407, 8.979679729]], [10.00, [985.6773407, 8.979679729]], [10.01, [985.6773407, 8.979679729]]]

beta is, $\frac{11}{10}$, times the threshold value

the long-term behavior is

[[9.98, [981.0859054, 11.01742279]], [9.99, [981.0859054, 11.01742279]], [10.00, [981.0859054, 11.01742279]], [10.01, [981.0859054, 11.01742279]]]

beta is, $\frac{13}{10}$, times the threshold value

the long-term behavior is

[[9.98, [976.0036901, 13.06988925]], [9.99, [976.0036901, 13.06988925]], [10.00, [976.0036901, 13.06988925]], [10.01, [976.0036901, 13.06988925]]]

beta is, $\frac{3}{2}$, times the threshold value

the long-term behavior is

[[9.98, [970.4433482, 15.13669951]], [9.99, [970.4433482, 15.13669951]], [10.00, [970.4433482, 15.13669951]], [10.01, [970.4433482, 15.13669951]]]

beta is, $\frac{17}{10}$, times the threshold value

the long-term behavior is

[[9.98, [964.4188616, 17.21743410]], [9.99, [964.4188616, 17.21743410]], [10.00, [964.4188616, 17.21743410]], [10.01, [964.4188616, 17.21743410]]]

beta is, $\frac{19}{10}$, times the threshold value

the long-term behavior is

[[9.98, [957.9454447, 19.31163661]], [9.99, [957.9454447, 19.31163661]], [10.00, [957.9454447, 19.31163661]], [10.01, [957.9454447, 19.31163661]]]

beta is, $\frac{21}{10}$, times the threshold value

the long-term behavior is

[[9.98, [951.0394389, 21.41881679]], [9.99, [951.0394389, 21.41881679]], [10.00, [951.0394389, 21.41881679]], [10.01, [951.0394389, 21.41881679]]]

beta is, $\frac{23}{10}$, times the threshold value

the long-term behavior is

[[9.98, [943.7182031, 23.53845386]], [9.99, [943.7182031, 23.53845386]], [10.00, [943.7182031, 23.53845386]], [10.01, [943.7182031, 23.53845386]]]

beta is, $\frac{5}{2}$, times the threshold value

the long-term behavior is

[[9.98, [935.9999984, 25.67000000]], [9.99, [935.9999984, 25.67000000]], [10.00, [935.9999984, 25.67000000]], [10.01, [935.9999984, 25.67000000]]]

beta is, $\frac{27}{10}$, times the threshold value

the long-term behavior is

[[9.98, [927.9038703, 27.81288384]], [9.99, [927.9038703, 27.81288384]], [10.00, [927.9038703, 27.81288384]], [10.01, [927.9038703, 27.81288384]]]

beta is, $\frac{29}{10}$, times the threshold value

the long-term behavior is

[[9.98, [919.4495282, 29.96651411]], [9.99, [919.4495282, 29.96651411]], [10.00, [919.4495282, 29.96651411]], [10.01, [919.4495282, 29.96651411]]]

beta is, $\frac{31}{10}$, times the threshold value

the long-term behavior is

[[9.98, [910.6572255, 32.13028319]], [9.99, [910.6572255, 32.13028319]], [10.00, [910.6572255, 32.13028319]], [10.01, [910.6572255, 32.13028319]]]

beta is, $\frac{33}{10}$, times the threshold value

the long-term behavior is

[[9.98, [901.5476397, 34.30357076]], [9.99, [901.5476397, 34.30357076]], [10.00, [901.5476397, 34.30357076]], [10.01, [901.5476397, 34.30357076]]]

beta is, $\frac{7}{2}$, times the threshold value

the long-term behavior is

[[9.98, [892.1417551, 36.48574730]], [9.99, [892.1417551, 36.48574730]], [10.00, [892.1417551, 36.48574730]], [10.01, [892.1417551, 36.48574730]]]

beta is, $\frac{37}{10}$, times the threshold value

the long-term behavior is

[[9.98, [882.4607475, 38.67617753]], [9.99, [882.4607475, 38.67617753]], [10.00, [882.4607475, 38.67617753]], [10.01, [882.4607475, 38.67617753]]]

beta is, $\frac{39}{10}$, times the threshold value

the long-term behavior is

[[9.98, [872.5258747, 40.87422371]], [9.99, [872.5258747, 40.87422371]], [10.00, [872.5258747, 40.87422371]], [10.01, [872.5258747, 40.87422371]]]

(2)

> #1 (iii)

SIRSdemo(1000, 200, 7, 3, 0.01, 10);

When $\beta = 0.3 \cdot N \nu$, the number of removed individuals is 3. When $\beta = 0.9 \cdot N \nu$, the number of removed individuals is 9. When $\beta = 3.9 \cdot N \nu$, the number of removed individuals is 42 people

This is a numerical demonstration of the R_0 phenomenon in the SIRS model using discretization with mesh size =, 0.01, and letting it run until time $t =$, 10

with population size, 1000, and fixed parameters $\nu =$, 3, and $\gamma =$, 7

where we change β from $0.2 \cdot \nu / N$ to $4 \cdot \nu / N$

Recall that the epidemic will persist if β exceeds ν / N , that in this case is, $\frac{3}{1000}$

We start with , 200, infected individuals, 0 removed and hence, 800, susceptible

We will show what happens once time is close to, 10

β is, $\frac{1}{10}$, times the threshold value

the long-term behavior is

[[9.98, [998.9571869, 0.9729968716]], [9.99, [998.9571869, 0.9729968716]], [10.00, [998.9571869, 0.9729968716]], [10.01, [998.9571869, 0.9729968716]]]

β is, $\frac{3}{10}$, times the threshold value

the long-term behavior is

[[9.98, [996.6155905, 2.936908621]], [9.99, [996.6155905, 2.936908621]], [10.00, [996.6155905, 2.936908621]], [10.01, [996.6155905, 2.936908621]]]

β is, $\frac{1}{2}$, times the threshold value

the long-term behavior is

[[9.98, [993.9350689, 4.924545130]], [9.99, [993.9350689, 4.924545130]], [10.00, [993.9350689, 4.924545130]], [10.01, [993.9350689, 4.924545130]]]

β is, $\frac{7}{10}$, times the threshold value

the long-term behavior is

[[9.98, [990.9190693, 6.935665103]], [9.99, [990.9190693, 6.935665103]], [10.00, [990.9190693, 6.935665103]], [10.01, [990.9190693, 6.935665103]]]

β is, $\frac{9}{10}$, times the threshold value

the long-term behavior is

[[9.98, [987.5717147, 8.969979927]], [9.99, [987.5717147, 8.969979927]], [10.00, [987.5717147, 8.969979927]], [10.01, [987.5717147, 8.969979927]]]

beta is, $\frac{11}{10}$, times the threshold value

the long-term behavior is

[[9.98, [983.8977865, 11.02715490]], [9.99, [983.8977865, 11.02715490]], [10.00, [983.8977865, 11.02715490]], [10.01, [983.8977865, 11.02715490]]]

beta is, $\frac{13}{10}$, times the threshold value

the long-term behavior is

[[9.98, [979.9027040, 13.10681067]], [9.99, [979.9027040, 13.10681067]], [10.00, [979.9027040, 13.10681067]], [10.01, [979.9027040, 13.10681067]]]

beta is, $\frac{3}{2}$, times the threshold value

the long-term behavior is

[[9.98, [975.5925002, 15.20852494]], [9.99, [975.5925002, 15.20852494]], [10.00, [975.5925002, 15.20852494]], [10.01, [975.5925002, 15.20852494]]]

beta is, $\frac{17}{10}$, times the threshold value

the long-term behavior is

[[9.98, [970.9737953, 17.33183428]], [9.99, [970.9737953, 17.33183428]], [10.00, [970.9737953, 17.33183428]], [10.01, [970.9737953, 17.33183428]]]

beta is, $\frac{19}{10}$, times the threshold value

the long-term behavior is

[[9.98, [966.0537675, 19.47623623]], [9.99, [966.0537675, 19.47623623]], [10.00, [966.0537675, 19.47623623]], [10.01, [966.0537675, 19.47623623]]]

beta is, $\frac{21}{10}$, times the threshold value

the long-term behavior is

[[9.98, [960.8401210, 21.64119148]], [9.99, [960.8401210, 21.64119148]], [10.00, [960.8401210, 21.64119148]], [10.01, [960.8401210, 21.64119148]]]

beta is, $\frac{23}{10}$, times the threshold value

the long-term behavior is

[[9.98, [955.3410529, 23.82612625]], [9.99, [955.3410529, 23.82612625]], [10.00, [955.3410529, 23.82612625]], [10.01, [955.3410529, 23.82612625]]]

beta is, $\frac{5}{2}$, times the threshold value

the long-term behavior is

[[9.98, [949.5652167, 26.03043478]], [9.99, [949.5652167, 26.03043478]], [10.00, [949.5652167, 26.03043478]], [10.01, [949.5652167, 26.03043478]]]

beta is, $\frac{27}{10}$, times the threshold value

the long-term behavior is

[[9.98, [943.5216861, 28.25348193]], [9.99, [943.5216861, 28.25348193]], [10.00, [943.5216861, 28.25348193]], [10.01, [943.5216861, 28.25348193]]]

beta is, $\frac{29}{10}$, times the threshold value

the long-term behavior is

[[9.98, [937.2199158, 30.49460585]], [9.99, [937.2199158, 30.49460585]], [10.00, [937.2199158, 30.49460585]], [10.01, [937.2199158, 30.49460585]]]

beta is, $\frac{31}{10}$, times the threshold value

the long-term behavior is

[[9.98, [930.6697029, 32.75312075]], [9.99, [930.6697029, 32.75312075]], [10.00, [930.6697029, 32.75312075]], [10.01, [930.6697029, 32.75312075]]]

beta is, $\frac{33}{10}$, times the threshold value

the long-term behavior is

[[9.98, [923.8811464, 35.02831970]], [9.99, [923.8811464, 35.02831970]], [10.00, [923.8811464, 35.02831970]], [10.01, [923.8811464, 35.02831970]]]

beta is, $\frac{7}{2}$, times the threshold value

the long-term behavior is

[[9.98, [916.8646074, 37.31947743]], [9.99, [916.8646074, 37.31947743]], [10.00, [916.8646074, 37.31947743]], [10.01, [916.8646074, 37.31947743]]]

beta is, $\frac{37}{10}$, times the threshold value

the long-term behavior is

[[9.98, [909.6306685, 39.62585316]], [9.99, [909.6306685, 39.62585316]], [10.00, [909.6306685, 39.62585316]], [10.01, [909.6306685, 39.62585316]]]

beta is, $\frac{39}{10}$, times the threshold value

the long-term behavior is

[[9.98, [902.1900937, 41.94669340]], [9.99, [902.1900937, 41.94669340]], [10.00, [902.1900937, 41.94669340]], [10.01, [902.1900937, 41.94669340]]]

> #2 (i)

$F := \text{RandNice}([x, y], 8);$

$\text{EquPts}(F, [x, y]);$

$\text{StEquPts}(F, [x, y]);$

$F := [(5 - 7x - 7y)(2 - 5x - 8y), (6 - 2x - 3y)(4 - 4x - 6y)]$

$\left\{ [10, -6], [42, -26], \left[-\frac{27}{7}, \frac{32}{7} \right], \left[\frac{1}{7}, \frac{4}{7} \right] \right\}$

\emptyset

(4)

> $\text{Dis2}(F, x, y, [10.01, -6.01], 0.01, 10);$

$[[0.01, [10.01, -6.01]], [0.02, [10.003100, -6.009198]], [0.03, [9.989765474,$

$-6.007477326]], [0.04, [9.964375099, -6.004008434]], [0.05, [9.916614089,$

$-5.997207731]], [0.06, [9.828084174, -5.984034350]], [0.07, [9.667747062,$

$-5.958608027]], [0.08, [9.388899193, -5.909542501]], [0.09, [8.937559192,$

$-5.815394651]], [0.10, [8.291103232, -5.640344465]], [0.11, [7.522891264,$

$-5.343836082]], [0.12, [6.791185796, -4.926686864]], [0.13, [6.190740433,$

$-4.466367445]], [0.14, [5.711548346, -4.042836941]], [0.15, [5.325056749,$

$-3.680018498]], [0.16, [5.011355452, -3.374586684]], [0.17, [4.756940037,$

$-3.118214602]], [0.18, [4.552388183, -2.903185281]], [0.19, [4.391163684,$

$-2.723296579]], [0.20, [4.268972914, -2.573785003]], [0.21, [4.183458761,$

$-2.451103123]], [0.22, [4.134176864, -2.352732397]], [0.23, [4.122898874,$

$-2.277067866]], [0.24, [4.154419880, -2.223381398]], [0.25, [4.238319090,$

$-2.191866225]], [0.26, [4.392805979, -2.183753522]], [0.27, [4.653762537,$

$-2.201403222]], [0.28, [5.098763404, -2.247775404]], [0.29, [5.923130849,$

$-2.321817464]], [0.30, [7.750267196, -2.386300963]], [0.31, [13.49850439,$

$-2.089305681]], [0.32, [50.01591428, 3.427944526]], [0.33, [1066.917275,$

$229.4083450]], [0.34, [651139.5408, 159058.5248]], [0.35, [2.568100991 \times 10^{11},$

$6.332905180 \times 10^{10}]], [0.36, [4.012873946 \times 10^{22}, 9.901266159 \times 10^{21}]], [0.37,$

$[9.800761961 \times 10^{44}, 2.418296505 \times 10^{44}]], [0.38, [5.846224077 \times 10^{89}, 1.442533885$

$\times 10^{89}]], [0.39, [2.080209629 \times 10^{179}, 5.132839915 \times 10^{178}]], [0.40, [2.633724943$

$\times 10^{358}, 6.498618421 \times 10^{357}]], [0.41, [4.221794093 \times 10^{716}, 1.041712002 \times 10^{716}]],$

$[0.42, [1.084801581 \times 10^{1433}, 2.676707588 \times 10^{1432}]], [0.43, [7.162371329 \times 10^{2865},$

$1.767288509 \times 10^{2865}]], [0.44, [3.122265858 \times 10^{5731}, 7.704074979 \times 10^{5730}]], [0.45,$

$[5.933295446 \times 10^{11462}, 1.464018602 \times 10^{11462}]], [0.46, [2.142634842 \times 10^{22925},$

$5.286871849 \times 10^{22924}]], [0.47, [2.794168161 \times 10^{45850}, 6.894506105 \times 10^{45849}]], [0.48,$

$[4.751834357 \times 10^{91700}, 1.172497469 \times 10^{91700}]], [0.49, [1.374291311 \times 10^{183401},$

(5)

$3.391012738 \times 10^{183400}]$, $[0.50, [1.149512810 \times 10^{366802}, 2.836380141 \times 10^{366801}]$,
 $[0.51, [8.042366210 \times 10^{733603}, 1.984423975 \times 10^{733603}]$, $[0.52, [3.936623709$
 $\times 10^{1467207}, 9.713472708 \times 10^{1467206}]$, $[0.53, [9.432004984 \times 10^{2934414}, 2.327312179$
 $\times 10^{2934414}]$, $[0.54, [5.414573548 \times 10^{5868829}, 1.336025902 \times 10^{5868829}]$, $[0.55,$
 $[1.784369243 \times 10^{11737659}, 4.402864798 \times 10^{11737658}]$, $[0.56, [1.937874605 \times 10^{23475318},$
 $4.781633574 \times 10^{23475317}]$, $[0.57, [2.285638575 \times 10^{46950636}, 5.639728244$
 $\times 10^{46950635}]$, $[0.58, [3.179591507 \times 10^{93901272}, 7.845523885 \times 10^{93901271}]$, $[0.59,$
 $[6.153169389 \times 10^{187802544}, 1.518271680 \times 10^{187802544}]$, $[0.60, [2.304379248$
 $\times 10^{375605089}, 5.685970163 \times 10^{375605088}]$, $[0.61, [3.231946219 \times 10^{751210178},$
 $7.974707191 \times 10^{751210177}]$, $[0.62, [6.357472125 \times 10^{1502420356}, 1.568682622$
 $\times 10^{1502420356}]$, $[0.63, [2.459943563 \times 10^{3004840713}, 6.069819327 \times 10^{3004840712}]$,
 $[0.64, [3.683040556 \times 10^{6009681426}, 9.087765703 \times 10^{6009681425}]$, $[0.65, [8.255991103$
 $\times 10^{12019362852}, 2.037135123 \times 10^{12019362852}]$, $[0.66, [4.148533931 \times 10^{24038725705},$
 $1.023635331 \times 10^{24038725705}]$, $[0.67, [1.047479440 \times 10^{48077451411}, 2.584616592$
 $\times 10^{48077451410}]$, $[0.68, [6.678012518 \times 10^{96154902821}, 1.647774772 \times 10^{96154902821}]$,
 $[0.69, [2.714255157 \times 10^{192309805643}, 6.697323736 \times 10^{192309805642}]$, $[0.70,$
 $[4.483916923 \times 10^{384619611286}, 1.106389838 \times 10^{384619611286}]$, $[0.71, [1.223689769$
 $\times 10^{769239222573}, 3.019409031 \times 10^{769239222572}]$, $[0.72, [9.113786949 \times 10^{1538478445145},$
 $2.248793062 \times 10^{1538478445145}]$, $[0.73, [5.055381770 \times 10^{3076956890291}, 1.247396666$
 $\times 10^{3076956890291}]$, $[0.74, [1.555478921 \times 10^{6153913780583}, 3.838086436$
 $\times 10^{6153913780582}]$, $[0.75, [1.472598910 \times 10^{12307827561166}, 3.633583086$
 $\times 10^{12307827561165}]$, $[0.76, [1.319851783 \times 10^{24615655122332}, 3.256685227$
 $\times 10^{24615655122331}]$, $[0.77, [1.060245752 \times 10^{49231310244664}, 2.616116992$
 $\times 10^{49231310244663}]$, $[0.78, [6.841783010 \times 10^{98462620489327}, 1.688184533$
 $\times 10^{98462620489327}]$, $[0.79, [2.849015464 \times 10^{196925240978655}, 7.029839786$
 $\times 10^{196925240978654}]$, $[0.80, [4.940214742 \times 10^{393850481957310}, 1.218979629$
 $\times 10^{393850481957310}]$, $[0.81, [1.485415217 \times 10^{787700963914621}, 3.665206848$
 $\times 10^{787700963914620}]$, $[0.82, [1.342925595 \times 10^{1575401927829242}, 3.313619002$
 $\times 10^{1575401927829241}]$, $[0.83, [1.097640484 \times 10^{3150803855658484}, 2.708387104$
 $\times 10^{3150803855658483}]$, $[0.84, [7.332911564 \times 10^{6301607711316967}, 1.809368678$
 $\times 10^{6301607711316967}]$, $[0.85, [3.272721947 \times 10^{12603215422633935}, 8.075319784$
 $\times 10^{12603215422633934}]$, $[0.86, [6.518901696 \times 10^{25206430845267870}, 1.608514768$

$\times 10^{25206430845267870}]$, [0.87, [2.586455901 $\times 10^{50412861690535741}$, 6.381983816
 $\times 10^{50412861690535740}]$, [0.88, [4.071611854 $\times 10^{100825723381071482}$, 1.004655094
 $\times 10^{100825723381071482}]$, [0.89, [1.008994861 $\times 10^{201651446762142965}$, 2.489657323
 $\times 10^{201651446762142964}]$, [0.90, [6.196324058 $\times 10^{403302893524285929}$, 1.528919935
 $\times 10^{403302893524285929}]$, [0.91, [2.336815687 $\times 10^{806605787048571859}$, 5.766005866
 $\times 10^{806605787048571858}]$, [0.92, [3.323572317 $\times 10^{1613211574097143718}$, 8.200791182
 $\times 10^{1613211574097143717}]$, [0.93, [6.723052150 $\times 10^{3226423148194287436}$, 1.658888134
 $\times 10^{3226423148194287436}]$, [0.94, [2.750991029 $\times 10^{6452846296388574873}$, 6.787968131
 $\times 10^{6452846296388574872}]$, [0.95, [Float(∞), Float(∞)]], [0.96, [Float(∞), Float(∞)]],
[0.97, [Float(∞), Float(∞)]], [0.98, [Float(∞), Float(∞)]], [0.99, [Float(∞),
Float(∞)]], [1.00, [Float(∞), Float(∞)]], [1.01, [Float(∞), Float(∞)]], [1.02, [
Float(∞), Float(∞)]], [1.03, [Float(∞), Float(∞)]], [1.04, [Float(∞), Float(∞)]],
[1.05, [Float(∞), Float(∞)]], [1.06, [Float(∞), Float(∞)]], [1.07, [Float(∞),
Float(∞)]], [1.08, [Float(∞), Float(∞)]], [1.09, [Float(∞), Float(∞)]], [1.10, [
Float(∞), Float(∞)]], [1.11, [Float(∞), Float(∞)]], [1.12, [Float(∞), Float(∞)]],
[1.13, [Float(∞), Float(∞)]], [1.14, [Float(∞), Float(∞)]], [1.15, [Float(∞),
Float(∞)]], [1.16, [Float(∞), Float(∞)]], [1.17, [Float(∞), Float(∞)]], [1.18, [
Float(∞), Float(∞)]], [1.19, [Float(∞), Float(∞)]], [1.20, [Float(∞), Float(∞)]],
[1.21, [Float(∞), Float(∞)]], [1.22, [Float(∞), Float(∞)]], [1.23, [Float(∞),
Float(∞)]], [1.24, [Float(∞), Float(∞)]], [1.25, [Float(∞), Float(∞)]], [1.26, [
Float(∞), Float(∞)]], [1.27, [Float(∞), Float(∞)]], [1.28, [Float(∞), Float(∞)]],
[1.29, [Float(∞), Float(∞)]], [1.30, [Float(∞), Float(∞)]], [1.31, [Float(∞),
Float(∞)]], [1.32, [Float(∞), Float(∞)]], [1.33, [Float(∞), Float(∞)]], [1.34, [
Float(∞), Float(∞)]], [1.35, [Float(∞), Float(∞)]], [1.36, [Float(∞), Float(∞)]],
[1.37, [Float(∞), Float(∞)]], [1.38, [Float(∞), Float(∞)]], [1.39, [Float(∞),
Float(∞)]], [1.40, [Float(∞), Float(∞)]], [1.41, [Float(∞), Float(∞)]], [1.42, [
Float(∞), Float(∞)]], [1.43, [Float(∞), Float(∞)]], [1.44, [Float(∞), Float(∞)]],
[1.45, [Float(∞), Float(∞)]], [1.46, [Float(∞), Float(∞)]], [1.47, [Float(∞),
Float(∞)]], [1.48, [Float(∞), Float(∞)]], [1.49, [Float(∞), Float(∞)]], [1.50, [
Float(∞), Float(∞)]], [1.51, [Float(∞), Float(∞)]], [1.52, [Float(∞), Float(∞)]],
[1.53, [Float(∞), Float(∞)]], [1.54, [Float(∞), Float(∞)]], [1.55, [Float(∞),
Float(∞)]], [1.56, [Float(∞), Float(∞)]], [1.57, [Float(∞), Float(∞)]], [1.58, [
Float(∞), Float(∞)]], [1.59, [Float(∞), Float(∞)]], [1.60, [Float(∞), Float(∞)]],
[1.61, [Float(∞), Float(∞)]], [1.62, [Float(∞), Float(∞)]], [1.63, [Float(∞),
Float(∞)]], [1.64, [Float(∞), Float(∞)]], [1.65, [Float(∞), Float(∞)]], [1.66, [
Float(∞), Float(∞)]], [1.67, [Float(∞), Float(∞)]], [1.68, [Float(∞), Float(∞)]],

Float(∞)], [9.80, [Float(∞), Float(∞)]], [9.81, [Float(∞), Float(∞)]], [9.82, [Float(∞), Float(∞)]], [9.83, [Float(∞), Float(∞)]], [9.84, [Float(∞), Float(∞)]], [9.85, [Float(∞), Float(∞)]], [9.86, [Float(∞), Float(∞)]], [9.87, [Float(∞), Float(∞)]], [9.88, [Float(∞), Float(∞)]], [9.89, [Float(∞), Float(∞)]], [9.90, [Float(∞), Float(∞)]], [9.91, [Float(∞), Float(∞)]], [9.92, [Float(∞), Float(∞)]], [9.93, [Float(∞), Float(∞)]], [9.94, [Float(∞), Float(∞)]], [9.95, [Float(∞), Float(∞)]], [9.96, [Float(∞), Float(∞)]], [9.97, [Float(∞), Float(∞)]], [9.98, [Float(∞), Float(∞)]], [9.99, [Float(∞), Float(∞)]], [10.00, [Float(∞), Float(∞)]], [10.01, [Float(∞), Float(∞)]]]

> *Dis2*(*F*, *x*, *y*, [42.01, -26.01], 0.01, 10);

[[0.01, [42.01, -26.01]], [0.02, [41.977900, -26.010798]], [0.03, [41.76768752, -26.01680819]], [0.04, [40.40353838, -26.05270663]], [0.05, [32.38146821, -26.09620028]], [0.06, [13.32671304, -20.03322200]], [0.07, [63.00340308, 7.93119568]], [0.08, [1913.495484, 433.0062888]], [0.09, [2.141428713 $\times 10^6$, 525132.6212]], [0.10, [2.782755946 $\times 10^{12}$, 6.863826886 $\times 10^{11}$]], [0.11, [4.712265911 $\times 10^{24}$, 1.162708789 $\times 10^{24}$]], [0.12, [1.351485050 $\times 10^{49}$, 3.334734829 $\times 10^{48}$]], [0.13, [1.111676528 $\times 10^{98}$, 2.743020311 $\times 10^{97}$]], [0.14, [7.521649123 $\times 10^{195}$, 1.855938961 $\times 10^{195}$]], [0.15, [3.443359393 $\times 10^{391}$, 8.496361338 $\times 10^{390}$]], [0.16, [7.216405372 $\times 10^{782}$, 1.780621208 $\times 10^{782}$]], [0.17, [3.169553278 $\times 10^{1565}$, 7.820754925 $\times 10^{1564}$]], [0.18, [6.114378604 $\times 10^{3130}$, 1.508700198 $\times 10^{3130}$]], [0.19, [2.275416315 $\times 10^{6261}$, 5.614505200 $\times 10^{6260}$]], [0.20, [3.151214380 $\times 10^{12522}$, 7.775504377 $\times 10^{12521}$]], [0.21, [6.043828235 $\times 10^{25044}$, 1.491292158 $\times 10^{25044}$]], [0.22, [2.223209762 $\times 10^{50089}$, 5.485687468 $\times 10^{50088}$]], [0.23, [3.008271958 $\times 10^{100178}$, 7.422799266 $\times 10^{100177}$]], [0.24, [5.507955274 $\times 10^{200356}$, 1.359067495 $\times 10^{200356}$]], [0.25, [1.846447756 $\times 10^{400713}$, 4.556041223 $\times 10^{400712}$]], [0.26, [2.075058106 $\times 10^{801426}$, 5.120128765 $\times 10^{801425}$]], [0.27, [2.620696562 $\times 10^{1602852}$, 6.466471375 $\times 10^{1602851}$]], [0.28, [4.180129071 $\times 10^{3205704}$, 1.031431315 $\times 10^{3205704}$]], [0.29, [1.063495356 $\times 10^{6411409}$, 2.624135271 $\times 10^{6411408}$]], [0.30, [6.883786778 $\times 10^{12822817}$, 1.698548806 $\times 10^{12822817}$]], [0.31, [2.884104776 $\times 10^{25645635}$, 7.116421358 $\times 10^{25645634}$]], [0.32, [5.062654402 $\times 10^{51291270}$, 1.249191160 $\times 10^{51291270}$]], [0.33, [1.559957539 $\times 10^{102582541}$, 3.849137256 $\times 10^{102582540}$]], [0.34, [1.481091088 $\times 10^{205165082}$, 3.654537220 $\times 10^{205165081}$]], [0.35, [1.335118309 $\times 10^{410330164}$, 3.294354812 $\times 10^{410330163}$]], [0.36, [1.084915009 $\times 10^{820660328}$, 2.676987467 $\times 10^{820660327}$]], [0.37, [7.163869218 $\times 10^{1641320655}$, 1.767658107 $\times 10^{1641320655}$]], [0.38, [3.123571933 $\times 10^{3282641311}$, 7.707297667

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$\times 10^{3282641310}]$, $[0.39, [5.938260394 \times 10^{6565282622}, 1.465243685 \times 10^{6565282622}]]$,
 $[0.40, [2.146222233 \times 10^{13130565245}, 5.295723601 \times 10^{13130565244}]]$, $[0.41, [2.803532485$
 $\times 10^{26261130490}, 6.917612225 \times 10^{26261130489}]]$, $[0.42, [4.783738152 \times 10^{52522260980},$
 $1.180369612 \times 10^{52522260980}]]$, $[0.43, [1.392807233 \times 10^{105044521961}, 3.436700087$
 $\times 10^{105044521960}]]$, $[0.44, [1.180696405 \times 10^{210089043922}, 2.913324503 \times 10^{210089043921}]]$,
 $[0.45, [8.484625854 \times 10^{420178087843}, 2.093549899 \times 10^{420178087843}]]$, $[0.46,$
 $[4.381487793 \times 10^{840356175687}, 1.081115831 \times 10^{840356175687}]]$, $[0.47, [1.168421195$
 $\times 10^{1680712351375}, 2.883035878 \times 10^{1680712351374}]]$, $[0.48, [8.309120686 \times 10^{3361424702749},$
 $2.050244651 \times 10^{3361424702749}]]$, $[0.49, [4.202099657 \times 10^{6722849405499}, 1.036852474$
 $\times 10^{6722849405499}]]$, $[0.50, [1.074704110 \times 10^{13445698810999}, 2.651792454$
 $\times 10^{13445698810998}]]$, $[0.51, [7.029655361 \times 10^{26891397621997}, 1.734541337$
 $\times 10^{26891397621997}]]$, $[0.52, [3.007629122 \times 10^{53782795243995}, 7.421213088$
 $\times 10^{53782795243994}]]$, $[0.53, [5.505601538 \times 10^{107565590487990}, 1.358486720$
 $\times 10^{107565590487990}]]$, $[0.54, [1.844869994 \times 10^{215131180975981}, 4.552148153$
 $\times 10^{215131180975980}]]$, $[0.55, [2.071513409 \times 10^{430262361951962}, 5.111382356$
 $\times 10^{430262361951961}]]$, $[0.56, [2.611750650 \times 10^{860524723903924}, 6.444397677$
 $\times 10^{860524723903923}]]$, $[0.57, [4.151639517 \times 10^{1721049447807848}, 1.024401623$
 $\times 10^{1721049447807848}]]$, $[0.58, [1.049048309 \times 10^{3442098895615697}, 2.588487720$
 $\times 10^{3442098895615696}]]$, $[0.59, [6.698031573 \times 10^{6884197791231393}, 1.652714400$
 $\times 10^{6884197791231393}]]$, $[0.60, [2.730552901 \times 10^{13768395582462787}, 6.737537813$
 $\times 10^{13768395582462786}]]$, $[0.61, [4.537925940 \times 10^{27536791164925574}, 1.119716362$
 $\times 10^{27536791164925574}]]$, $[0.62, [1.253346122 \times 10^{55073582329851149}, 3.092584981$
 $\times 10^{55073582329851148}]]$, $[0.63, [9.560888587 \times 10^{110147164659702297}, 2.359113729$
 $\times 10^{110147164659702297}]]$, $[0.64, [5.563559396 \times 10^{220294329319404595}, 1.372787606$
 $\times 10^{220294329319404595}]]$, $[0.65, [1.883916596 \times 10^{440588658638809191}, 4.648494190$
 $\times 10^{440588658638809190}]]$, $[0.66, [2.160128355 \times 10^{881177317277618382}, 5.330036446$
 $\times 10^{881177317277618381}]]$, $[0.67, [2.839980315 \times 10^{1762354634555236764}, 7.007545889$
 $\times 10^{1762354634555236763}]]$, $[0.68, [4.908930389 \times 10^{3524709269110473528}, 1.211260331$
 $\times 10^{3524709269110473528}]]$, $[0.69, [1.466661735 \times 10^{7049418538220947057}, 3.618933328$
 $\times 10^{7049418538220947056}]]$, $[0.70, [\text{Float}(\infty), \text{Float}(\infty)]]$, $[0.71, [\text{Float}(\infty), \text{Float}(\infty)]]$,
 $[0.72, [\text{Float}(\infty), \text{Float}(\infty)]]$, $[0.73, [\text{Float}(\infty), \text{Float}(\infty)]]$, $[0.74, [\text{Float}(\infty),$
 $\text{Float}(\infty)]]$, $[0.75, [\text{Float}(\infty), \text{Float}(\infty)]]$, $[0.76, [\text{Float}(\infty), \text{Float}(\infty)]]$, $[0.77, [$
 $\text{Float}(\infty), \text{Float}(\infty)]]$, $[0.78, [\text{Float}(\infty), \text{Float}(\infty)]]$, $[0.79, [\text{Float}(\infty), \text{Float}(\infty)]]$,

[9.92, [Float(∞), Float(∞)]], [9.93, [Float(∞), Float(∞)]], [9.94, [Float(∞), Float(∞)]], [9.95, [Float(∞), Float(∞)]], [9.96, [Float(∞), Float(∞)]], [9.97, [Float(∞), Float(∞)]], [9.98, [Float(∞), Float(∞)]], [9.99, [Float(∞), Float(∞)]], [10.00, [Float(∞), Float(∞)]], [10.01, [Float(∞), Float(∞)]]]

> $Dis2\left(F, x, y, \left[-\frac{27}{7} + 0.01, \frac{32}{7} + 0.01\right], 0.01, 10\right);$

[[0.01, [−3.847142857, 4.581428571]], [0.02, [−3.825560857, 4.585478571]], [0.03, [−3.775871182, 4.594125512]], [0.04, [−3.660345896, 4.613640089]], [0.05, [−3.382494384, 4.660671121]], [0.06, [−2.657272564, 4.787656065]], [0.07, [−0.375879554, 5.217387575]], [0.08, [10.56199915, 7.513763554]], [0.09, [145.3635776, 38.90046652]], [0.10, [13456.66985, 3293.912443]], [0.11, [1.097968722 × 10⁸, 2.707496081 × 10⁷]], [0.12, [7.335082486 × 10¹⁵, 1.809836904 × 10¹⁵]], [0.13, [3.274601337 × 10³¹, 8.079939249 × 10³⁰]], [0.14, [6.526383979 × 10⁶², 1.610360783 × 10⁶²]], [0.15, [2.592396524 × 10¹²⁵, 6.396642038 × 10¹²⁴]], [0.16, [4.090336839 × 10²⁵⁰, 1.009275414 × 10²⁵⁰]], [0.17, [1.018296758 × 10⁵⁰¹, 2.512609409 × 10⁵⁰⁰]], [0.18, [6.311098178 × 10¹⁰⁰¹, 1.557240022 × 10¹⁰⁰¹]], [0.19, [2.424186825 × 10²⁰⁰³, 5.981590906 × 10²⁰⁰²]], [0.20, [3.576748364 × 10⁴⁰⁰⁶, 8.825493672 × 10⁴⁰⁰⁵]], [0.21, [7.786333273 × 10⁸⁰¹², 1.921248800 × 10⁸⁰¹²]], [0.22, [3.689964528 × 10¹⁶⁰²⁵, 9.104850349 × 10¹⁶⁰²⁴]], [0.23, [8.287062164 × 10³²⁰⁵⁰, 2.044801793 × 10³²⁰⁵⁰]], [0.24, [4.179818342 × 10⁶⁴¹⁰¹, 1.031354643 × 10⁶⁴¹⁰¹]], [0.25, [1.063337252 × 10¹²⁸²⁰³, 2.623745154 × 10¹²⁸²⁰²]], [0.26, [6.881740179 × 10²⁵⁶⁴⁰⁵, 1.698043815 × 10²⁵⁶⁴⁰⁵]], [0.27, [2.882390100 × 10⁵¹²⁸¹¹, 7.112190458 × 10⁵¹²⁸¹⁰]], [0.28, [5.056636429 × 10¹⁰²⁵⁶²², 1.247706248 × 10¹⁰²⁵⁶²²]], [0.29, [1.556251103 × 10²⁰⁵¹²⁴⁵, 3.839991765 × 10²⁰⁵¹²⁴⁴]], [0.30, [1.474061349 × 10⁴¹⁰²⁴⁹⁰, 3.637191599 × 10⁴¹⁰²⁴⁸⁹]], [0.31, [1.322474575 × 10⁸²⁰⁴⁹⁸⁰, 3.263156871 × 10⁸²⁰⁴⁹⁷⁹]], [0.32, [1.064463752 × 10¹⁶⁴⁰⁹⁹⁶⁰, 2.626524750 × 10¹⁶⁴⁰⁹⁹⁵⁹]], [0.33, [6.896328939 × 10³²⁸¹⁹⁹¹⁹, 1.701643538 × 10³²⁸¹⁹⁹¹⁹]], [0.34, [2.894623946 × 10⁶⁵⁶³⁹⁸³⁹, 7.142377017 × 10⁶⁵⁶³⁹⁸³⁸]], [0.35, [5.099651696 × 10¹³¹²⁷⁹⁶⁷⁸, 1.258320105 × 10¹³¹²⁷⁹⁶⁷⁸]], [0.36, [1.582840828 × 10²⁶²⁵⁵⁹³⁵⁷, 3.905600921 × 10²⁶²⁵⁵⁹³⁵⁶]], [0.37, [1.524862563 × 10⁵²⁵¹¹⁸⁷¹⁴, 3.762541706 × 10⁵²⁵¹¹⁸⁷¹³]], [0.38, [1.415199343 × 10¹⁰⁵⁰²³⁷⁴²⁸, 3.491951788 × 10¹⁰⁵⁰²³⁷⁴²⁷]], [0.39, [1.218965602 × 10²¹⁰⁰⁴⁷⁴⁸⁵⁶, 3.007752326 × 10²¹⁰⁰⁴⁷⁴⁸⁵⁵]], [0.40, [9.043553560 × 10⁴²⁰⁰⁹⁴⁹⁷¹¹, 2.231463234 × 10⁴²⁰⁰⁹⁴⁹⁷¹¹]], [0.41, [4.977765624 × 10⁸⁴⁰¹⁸⁹⁹⁴²³, 1.228245169 × 10⁸⁴⁰¹⁸⁹⁹⁴²³]], [0.42, [1.508082507 × 10¹⁶⁸⁰³⁷⁹⁸⁸⁴⁷,

(7)

$3.721137544 \times 10^{16803798846}$], [0.43, [$1.384224140 \times 10^{33607597694}$, $3.415521626 \times 10^{33607597693}$]], [0.44, [$1.166189298 \times 10^{67215195388}$, $2.877528756 \times 10^{67215195387}$]], [0.45, [$8.277407146 \times 10^{134430390775}$, $2.042419452 \times 10^{134430390775}$]], [0.46, [$4.170084442 \times 10^{268860781551}$, $1.028952839 \times 10^{268860781551}$]], [0.47, [$1.058390450 \times 10^{537721563103}$, $2.611539104 \times 10^{537721563102}$]], [0.48, [$6.817859373 \times 10^{1075443126205}$, $1.682281464 \times 10^{1075443126205}$]], [0.49, [$2.829126015 \times 10^{2150886252411}$, $6.980763308 \times 10^{2150886252410}$]], [0.50, [$4.871478597 \times 10^{4301772504822}$, $1.202019240 \times 10^{4301772504822}$]], [0.51, [$1.444367845 \times 10^{8603545009645}$, $3.563923983 \times 10^{8603545009644}$]], [0.52, [$1.269731334 \times 10^{17207090019290}$, $3.133014881 \times 10^{17207090019289}$]], [0.53, [$9.812504942 \times 10^{34414180038579}$, $2.421199128 \times 10^{34414180038579}$]], [0.54, [$5.860247940 \times 10^{68828360077159}$, $1.445994401 \times 10^{68828360077159}$]], [0.55, [$2.090201696 \times 10^{137656720154319}$, $5.157495009 \times 10^{137656720154318}$]], [0.56, [$2.659087361 \times 10^{275313440308638}$, $6.561199246 \times 10^{275313440308637}$]], [0.57, [$4.303496217 \times 10^{550626880617276}$, $1.061871699 \times 10^{550626880617276}$]], [0.58, [$1.127195030 \times 10^{1101253761234553}$, $2.781311847 \times 10^{1101253761234552}$]], [0.59, [$7.733112789 \times 10^{2202507522469105}$, $1.908116843 \times 10^{2202507522469105}$]], [0.60, [$3.639694253 \times 10^{4405015044938211}$, $8.980810317 \times 10^{4405015044938210}$]], [0.61, [$8.062802465 \times 10^{8810030089876422}$, $1.989466546 \times 10^{8810030089876422}$]], [0.62, [$3.956655640 \times 10^{17620060179752845}$, $9.762900759 \times 10^{17620060179752844}$]], [0.63, [$9.528240752 \times 10^{35240120359505690}$, $2.351057998 \times 10^{35240120359505690}$]], [0.64, [$5.525628184 \times 10^{70480240719011381}$, $1.363428220 \times 10^{70480240719011381}$]], [0.65, [$1.858315847 \times 10^{140960481438022763}$, $4.585325295 \times 10^{140960481438022762}$]], [0.66, [$2.101818813 \times 10^{281920962876045526}$, $5.186159810 \times 10^{281920962876045525}$]], [0.67, [$2.688727344 \times 10^{563841925752091052}$, $6.634334805 \times 10^{563841925752091051}$]], [0.68, [$4.399970268 \times 10^{1127683851504182104}$, $1.085676313 \times 10^{1127683851504182104}$]], [0.69, [$1.178299512 \times 10^{2255367703008364209}$, $2.907410260 \times 10^{2255367703008364208}$]], [0.70, [$8.450212103 \times 10^{4510735406016728417}$, $2.085058433 \times 10^{4510735406016728417}$]], [0.71, [$4.346017132 \times 10^{9021470812033456835}$, $1.072363577 \times 10^{9021470812033456835}$]], [0.72, [Float(∞), Float(∞)]], [0.73, [Float(∞), Float(∞)]], [0.74, [Float(∞), Float(∞)]], [0.75, [Float(∞), Float(∞)]], [0.76, [Float(∞), Float(∞)]], [0.77, [Float(∞), Float(∞)]], [0.78, [Float(∞), Float(∞)]], [0.79, [Float(∞), Float(∞)]], [0.80, [Float(∞), Float(∞)]], [0.81, [Float(∞), Float(∞)]], [0.82, [Float(∞), Float(∞)]], [0.83, [Float(∞), Float(∞)]], [0.84, [Float(∞),

Float(∞)], [9.97, [Float(∞), Float(∞)]], [9.98, [Float(∞), Float(∞)]], [9.99, [Float(∞), Float(∞)]], [10.00, [Float(∞), Float(∞)]], [10.01, [Float(∞), Float(∞)]]]

> $Dis2\left(F, x, y, \left[\frac{1}{7} + 0.01, \frac{4}{7} + 0.01\right], 0.01, 10\right);$

[[0.01, [0.1528571429, 0.5814285714]], [0.02, [0.1576391429, 0.5774785714]], [0.03, [0.1626088602, 0.5737069839]], [0.04, [0.1678561950, 0.5700428356]], [0.05, [0.1734755422, 0.5664175916]], [0.06, [0.1795678108, 0.5627639788]], [0.07, [0.1862426803, 0.5590147616]], [0.08, [0.1936211742, 0.5551014537]], [0.09, [0.2018386560, 0.5509529401]], [0.10, [0.2110483841, 0.5464939762]], [0.11, [0.2214258075, 0.5416435192]], [0.12, [0.2331738479, 0.5363128339]], [0.13, [0.2465295030, 0.5304032983]], [0.14, [0.2617722392, 0.5238038112]], [0.15, [0.2792348368, 0.5163876707]], [0.16, [0.2993176466, 0.5080087518]], [0.17, [0.3225076722, 0.4984967450]], [0.18, [0.3494046125, 0.4876511350]], [0.19, [0.3807571632, 0.4752334676]], [0.20, [0.4175148161, 0.4609572763]], [0.21, [0.4609037362, 0.4444747804]], [0.22, [0.5125412507, 0.4253591009]], [0.23, [0.5746145573, 0.4030802611]], [0.24, [0.6501708356, 0.3769726826]], [0.25, [0.7436103535, 0.3461916040]], [0.26, [0.8615716172, 0.3096571810]], [0.27, [1.014628399, 0.2659930724]], [0.28, [1.220817690, 0.2135005797]], [0.29, [1.513760427, 0.1503500251]], [0.30, [1.963988906, 0.07578779060]], [0.31, [2.745812901, -0.00372959173]], [0.32, [4.406469517, -0.03989571590]], [0.33, [9.446344863, 0.3206365494]], [0.34, [39.73464746, 5.268002978]], [0.35, [780.1124647, 171.8043229]], [0.36, [351878.2620, 86005.39593]], [0.37, [7.501857751 $\times 10^{10}$, 1.850006711 $\times 10^{10}$]], [0.38, [3.424329165 $\times 10^{21}$, 8.449120969 $\times 10^{20}$]], [0.39, [7.136745388 $\times 10^{42}$, 1.760961892 $\times 10^{42}$]], [0.40, [3.099960812 $\times 10^{85}$, 7.649037201 $\times 10^{84}$]], [0.41, [5.848824591 $\times 10^{170}$, 1.443175723 $\times 10^{170}$]], [0.42, [2.082060795 $\times 10^{341}$, 5.137407635 $\times 10^{340}$]], [0.43, [2.638414511 $\times 10^{682}$, 6.510189758 $\times 10^{681}$]], [0.44, [4.236841995 $\times 10^{1364}$, 1.045425017 $\times 10^{1364}$]], [0.45, [1.092548563 $\times 10^{2729}$, 2.695822978 $\times 10^{2728}$]], [0.46, [7.265035058 $\times 10^{5457}$, 1.792620402 $\times 10^{5457}$]], [0.47, [3.212414983 $\times 10^{10915}$, 7.926514593 $\times 10^{10914}$]], [0.48, [6.280865593 $\times 10^{21830}$, 1.549780244 $\times 10^{21830}$]], [0.49, [2.401016882 $\times 10^{43661}$, 5.924419931 $\times 10^{43660}$]], [0.50, [3.508703269 $\times 10^{87322}$, 8.657594928 $\times 10^{87321}$]], [0.51, [7.492892415 $\times 10^{174644}$, 1.848843360 $\times 10^{174644}$]], [0.52, [3.417080485 $\times 10^{349289}$, 8.431519111 $\times 10^{349288}$]], [0.53, [7.106677873 $\times 10^{698578}$, 1.753546356 $\times 10^{698578}$]], [0.54, [3.073898160

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$\times 10^{1397157}$, $7.584729483 \times 10^{1397156}$], [0.55, [$5.750891371 \times 10^{2794314}$, $1.419011074 \times 10^{2794314}$]], [0.56, [$2.012920128 \times 10^{5588629}$, $4.966805609 \times 10^{5588628}$]], [0.57, [$2.466092142 \times 10^{11177258}$, $6.084990714 \times 10^{11177257}$]], [0.58, [$3.701474933 \times 10^{22354516}$, $9.133251848 \times 10^{22354515}$]], [0.59, [$8.338843808 \times 10^{44709032}$, $2.057578722 \times 10^{44709032}$]], [0.60, [$4.232216664 \times 10^{89418065}$, $1.044283734 \times 10^{89418065}$]], [0.61, [$1.090164410 \times 10^{178836131}$, $2.689940169 \times 10^{178836130}$]], [0.62, [$7.233362221 \times 10^{357672261}$, $1.784805248 \times 10^{357672261}$]], [0.63, [$3.184466182 \times 10^{715344523}$, $7.857551963 \times 10^{715344522}$]], [0.64, [$6.172050862 \times 10^{1430689046}$, $1.522930615 \times 10^{1430689046}$]], [0.65, [$2.318543278 \times 10^{2861378093}$, $5.720919375 \times 10^{2861378092}$]], [0.66, [$3.271799094 \times 10^{5722756186}$, $8.073042678 \times 10^{5722756185}$]], [0.67, [$6.515225770 \times 10^{11445512372}$, $1.607607747 \times 10^{11445512372}$]], [0.68, [$2.583539784 \times 10^{22891024745}$, $6.374788407 \times 10^{22891024744}$]], [0.69, [$4.062435901 \times 10^{45782049490}$, $1.002390961 \times 10^{45782049490}$]], [0.70, [$1.004452160 \times 10^{91564098981}$, $2.478448376 \times 10^{91564098980}$]], [0.71, [$6.140655422 \times 10^{183128197961}$, $1.515183906 \times 10^{183128197961}$]], [0.72, [$2.295015749 \times 10^{366256395923}$, $5.662866074 \times 10^{366256395922}$]], [0.73, [$3.205734522 \times 10^{732512791846}$, $7.910030807 \times 10^{732512791845}$]], [0.74, [$6.254769683 \times 10^{1465025583692}$, $1.543341175 \times 10^{1465025583692}$]], [0.75, [$2.381106710 \times 10^{2930051167385}$, $5.875292325 \times 10^{2930051167384}$]], [0.76, [$3.450753459 \times 10^{5860102334770}$, $8.514605929 \times 10^{5860102334769}$]], [0.77, [$7.247430814 \times 10^{11720204669540}$, $1.788276622 \times 10^{11720204669540}$]], [0.78, [$3.196865542 \times 10^{23440409339081}$, $7.888146928 \times 10^{23440409339080}$]], [0.79, [$6.220208683 \times 10^{46880818678162}$, $1.534813378 \times 10^{46880818678162}$]], [0.80, [$2.354865595 \times 10^{93761637356325}$, $5.810543344 \times 10^{93761637356324}$]], [0.81, [$3.375114132 \times 10^{187523274712650}$, $8.327968696 \times 10^{187523274712649}$]], [0.82, [$6.933190623 \times 10^{375046549425300}$, $1.710739022 \times 10^{375046549425300}$]], [0.83, [$2.925650853 \times 10^{750093098850601}$, $7.218934759 \times 10^{750093098850600}$]], [0.84, [$5.209561945 \times 10^{1500186197701202}$, $1.285440050 \times 10^{1500186197701202}$]], [0.85, [$1.651804431 \times 10^{3000372395402405}$, $4.075766051 \times 10^{3000372395402404}$]], [0.86, [$1.660632251 \times 10^{6000744790804810}$, $4.097548364 \times 10^{6000744790804809}$]], [0.87, [$1.678429679 \times 10^{12001489581609620}$, $4.141462856 \times 10^{12001489581609619}$]], [0.88, [$1.714598797 \times 10^{24002979163219240}$, $4.230708814 \times 10^{24002979163219239}$]], [0.89, [$1.789292097 \times 10^{48005958326438480}$, $4.415011753 \times 10^{48005958326438479}$]], [0.90, [$1.948582068 \times 10^{96011916652876960}$, 4.808053838

$\times 10^{96011916652876959}]$, [0.91, [$2.310966327 \times 10^{192023833305753920}$, 5.702223531
 $\times 10^{192023833305753919}]$], [0.92, [$3.250449693 \times 10^{384047666611507840}$, 8.020363828
 $\times 10^{384047666611507839}]$], [0.93, [$6.430475853 \times 10^{768095333223015680}$, 1.586696021
 $\times 10^{768095333223015680}]$], [0.94, [$2.516763679 \times 10^{1536190666446031361}$, 6.210020852
 $\times 10^{1536190666446031360}]$], [0.95, [$3.855148305 \times 10^{3072381332892062722}$, 9.512435179
 $\times 10^{3072381332892062721}]$], [0.96, [$9.045621125 \times 10^{6144762665784125444}$, 2.231973398
 $\times 10^{6144762665784125444}]$], [0.97, [Float(∞), Float(∞)]], [0.98, [Float(∞), Float(∞)]],
[0.99, [Float(∞), Float(∞)]], [1.00, [Float(∞), Float(∞)]], [1.01, [Float(∞),
Float(∞)]], [1.02, [Float(∞), Float(∞)]], [1.03, [Float(∞), Float(∞)]], [1.04, [
Float(∞), Float(∞)]], [1.05, [Float(∞), Float(∞)]], [1.06, [Float(∞), Float(∞)]],
[1.07, [Float(∞), Float(∞)]], [1.08, [Float(∞), Float(∞)]], [1.09, [Float(∞),
Float(∞)]], [1.10, [Float(∞), Float(∞)]], [1.11, [Float(∞), Float(∞)]], [1.12, [
Float(∞), Float(∞)]], [1.13, [Float(∞), Float(∞)]], [1.14, [Float(∞), Float(∞)]],
[1.15, [Float(∞), Float(∞)]], [1.16, [Float(∞), Float(∞)]], [1.17, [Float(∞),
Float(∞)]], [1.18, [Float(∞), Float(∞)]], [1.19, [Float(∞), Float(∞)]], [1.20, [
Float(∞), Float(∞)]], [1.21, [Float(∞), Float(∞)]], [1.22, [Float(∞), Float(∞)]],
[1.23, [Float(∞), Float(∞)]], [1.24, [Float(∞), Float(∞)]], [1.25, [Float(∞),
Float(∞)]], [1.26, [Float(∞), Float(∞)]], [1.27, [Float(∞), Float(∞)]], [1.28, [
Float(∞), Float(∞)]], [1.29, [Float(∞), Float(∞)]], [1.30, [Float(∞), Float(∞)]],
[1.31, [Float(∞), Float(∞)]], [1.32, [Float(∞), Float(∞)]], [1.33, [Float(∞),
Float(∞)]], [1.34, [Float(∞), Float(∞)]], [1.35, [Float(∞), Float(∞)]], [1.36, [
Float(∞), Float(∞)]], [1.37, [Float(∞), Float(∞)]], [1.38, [Float(∞), Float(∞)]],
[1.39, [Float(∞), Float(∞)]], [1.40, [Float(∞), Float(∞)]], [1.41, [Float(∞),
Float(∞)]], [1.42, [Float(∞), Float(∞)]], [1.43, [Float(∞), Float(∞)]], [1.44, [
Float(∞), Float(∞)]], [1.45, [Float(∞), Float(∞)]], [1.46, [Float(∞), Float(∞)]],
[1.47, [Float(∞), Float(∞)]], [1.48, [Float(∞), Float(∞)]], [1.49, [Float(∞),
Float(∞)]], [1.50, [Float(∞), Float(∞)]], [1.51, [Float(∞), Float(∞)]], [1.52, [
Float(∞), Float(∞)]], [1.53, [Float(∞), Float(∞)]], [1.54, [Float(∞), Float(∞)]],
[1.55, [Float(∞), Float(∞)]], [1.56, [Float(∞), Float(∞)]], [1.57, [Float(∞),
Float(∞)]], [1.58, [Float(∞), Float(∞)]], [1.59, [Float(∞), Float(∞)]], [1.60, [
Float(∞), Float(∞)]], [1.61, [Float(∞), Float(∞)]], [1.62, [Float(∞), Float(∞)]],
[1.63, [Float(∞), Float(∞)]], [1.64, [Float(∞), Float(∞)]], [1.65, [Float(∞),
Float(∞)]], [1.66, [Float(∞), Float(∞)]], [1.67, [Float(∞), Float(∞)]], [1.68, [
Float(∞), Float(∞)]], [1.69, [Float(∞), Float(∞)]], [1.70, [Float(∞), Float(∞)]],
[1.71, [Float(∞), Float(∞)]], [1.72, [Float(∞), Float(∞)]], [1.73, [Float(∞),
Float(∞)]], [1.74, [Float(∞), Float(∞)]], [1.75, [Float(∞), Float(∞)]], [1.76, [
Float(∞), Float(∞)]], [1.77, [Float(∞), Float(∞)]], [1.78, [Float(∞), Float(∞)]],

Float(∞)], [9.90, [Float(∞), Float(∞)]], [9.91, [Float(∞), Float(∞)]], [9.92, [Float(∞), Float(∞)]], [9.93, [Float(∞), Float(∞)]], [9.94, [Float(∞), Float(∞)]], [9.95, [Float(∞), Float(∞)]], [9.96, [Float(∞), Float(∞)]], [9.97, [Float(∞), Float(∞)]], [9.98, [Float(∞), Float(∞)]], [9.99, [Float(∞), Float(∞)]], [10.00, [Float(∞), Float(∞)]], [10.01, [Float(∞), Float(∞)]]]

> #2 (ii)

$F := \text{RandNice}([x, y], 8);$

$\text{EquPts}(F, [x, y]);$

$\text{StEquPts}(F, [x, y]);$

$F := [(8 - 5x - 2y)(3 - 2x - 2y), (4 - 8x - 3y)(3 - x - 2y)]$

$\left\{ [-16, 44], \left[0, \frac{3}{2}\right], \left[-\frac{1}{10}, \frac{8}{5}\right], \left[\frac{5}{4}, \frac{7}{8}\right] \right\}$

$\left\{ \left[-\frac{1}{10}, \frac{8}{5}\right] \right\}$

(9)

> $\text{Dis2}(F, x, y, [-16.01, 44.01], 0.01, 10);$

[[0.01, [-16.01, 44.01]], [0.02, [-16.025900, 43.975495]], [0.03, [-16.12033034, 43.78201193]], [0.04, [-16.66325212, 42.67554646]], [0.05, [-19.58765104, 36.58012368]], [0.06, [-29.74389883, 10.80790515]], [0.07, [25.47566178, 34.12430808]], [0.08, [243.4980356, 308.2733148]], [0.09, [20339.81285, 24895.20691]], [0.10, [1.370611484 $\times 10^8$, 1.665070179 $\times 10^8$]], [0.11, [6.182589412 $\times 10^{15}$, 7.502448181 $\times 10^{15}$]], [0.12, [1.256774827 $\times 10^{31}$, 1.524822244 $\times 10^{31}$]], [0.13, [5.192417613 $\times 10^{61}$, 6.299716702 $\times 10^{61}$]], [0.14, [8.863083680 $\times 10^{122}$, 1.075312627 $\times 10^{123}$]], [0.15, [2.582343433 $\times 10^{245}$, 3.133023666 $\times 10^{245}$]], [0.16, [2.192159284 $\times 10^{490}$, 2.659633233 $\times 10^{490}$]], [0.17, [1.579749746 $\times 10^{980}$, 1.916628462 $\times 10^{980}$]], [0.18, [8.203905778 $\times 10^{1959}$, 9.953373527 $\times 10^{1959}$]], [0.19, [2.212510819 $\times 10^{3919}$, 2.684324660 $\times 10^{3919}$]], [0.20, [1.609217997 $\times 10^{7838}$, 1.952380759 $\times 10^{7838}$]], [0.21, [8.512827567 $\times 10^{15675}$, 1.032817231 $\times 10^{15676}$]], [0.22, [2.382274204 $\times 10^{31351}$, 2.890289775 $\times 10^{31351}$]], [0.23, [1.865638826 $\times 10^{62702}$, 2.263482857 $\times 10^{62702}$]], [0.24, [1.144192818 $\times 10^{125404}$, 1.388189822 $\times 10^{125404}$]], [0.25, [4.303705152 $\times 10^{250807}$, 5.221462319 $\times 10^{250807}$]], [0.26, [6.088763353 $\times 10^{501614}$, 7.387180883 $\times 10^{501614}$]], [0.27, [1.218715305 $\times 10^{1003229}$, 1.478604090 $\times 10^{1003229}$]], [0.28, [4.882571425 $\times 10^{2006457}$, 5.923770754 $\times 10^{2006457}$]], [0.29, [7.836845504 $\times 10^{4012914}$, 9.508038322 $\times 10^{4012914}$]], [0.30, [2.018955028 $\times 10^{8025829}$, 2.449493455 $\times 10^{8025829}$]], [0.31, [1.339977066 $\times 10^{16051658}$, 1.625724697 $\times 10^{16051658}$]], [0.32, [5.902538187 $\times 10^{32103315}$, 7.161243543 $\times 10^{32103315}$]], [0.33, [1.145306396 $\times 10^{64206631}$, 1.389540868

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$\times 10^{64206631}]$, $[0.34, [4.312086331 \times 10^{128413261}, 5.231630769 \times 10^{128413261}]]$, $[0.35,$
 $[6.112501368 \times 10^{256826522}, 7.415980984 \times 10^{256826522}]]$, $[0.36, [1.228236541$
 $\times 10^{513653045}, 1.490155712 \times 10^{513653045}]]$, $[0.37, [4.959159795 \times 10^{1027306089},$
 $6.016691451 \times 10^{1027306089}]]$, $[0.38, [8.084632436 \times 10^{2054612178}, 9.808665357$
 $\times 10^{2054612178}]]$, $[0.39, [2.148644837 \times 10^{4109224357}, 2.606839377 \times 10^{4109224357}]]$,
 $[0.40, [1.517656000 \times 10^{8218448714}, 1.841293337 \times 10^{8218448714}]]$, $[0.41, [7.571654026$
 $\times 10^{16436897427}, 9.186295252 \times 10^{16436897427}]]$, $[0.42, [1.884627820 \times 10^{32873794855},$
 $2.286521220 \times 10^{32873794855}]]$, $[0.43, [1.167603184 \times 10^{65747589710}, 1.416592404$
 $\times 10^{65747589710}]]$, $[0.44, [4.481615733 \times 10^{131495179419}, 5.437312001 \times 10^{131495179419}]]$,
 $[0.45, [6.602574450 \times 10^{262990358838}, 8.010561242 \times 10^{262990358838}]]$, $[0.46,$
 $[1.433080837 \times 10^{525980717677}, 1.738682676 \times 10^{525980717677}]]$, $[0.47, [6.751269621$
 $\times 10^{1051961435353}, 8.190965387 \times 10^{1051961435353}]]$, $[0.48, [1.498355891 \times 10^{2103922870707},$
 $1.817877515 \times 10^{2103922870707}]]$, $[0.49, [7.380300314 \times 10^{4207845741413}, 8.954135719$
 $\times 10^{4207845741413}]]$, $[0.50, [1.790573463 \times 10^{8415691482827}, 2.172409943$
 $\times 10^{8415691482827}]]$, $[0.51, [1.053970274 \times 10^{16831382965654}, 1.278727487$
 $\times 10^{16831382965654}]]$, $[0.52, [3.651747997 \times 10^{33662765931307}, 4.430476505$
 $\times 10^{33662765931307}]]$, $[0.53, [4.383748942 \times 10^{67325531862614}, 5.318575304$
 $\times 10^{67325531862614}]]$, $[0.54, [6.317357050 \times 10^{134651063725228}, 7.664521763$
 $\times 10^{134651063725228}]]$, $[0.55, [1.311942865 \times 10^{269302127450457}, 1.591712256$
 $\times 10^{269302127450457}]]$, $[0.56, [5.658142996 \times 10^{538604254900913}, 6.864731530$
 $\times 10^{538604254900913}]]$, $[0.57, [1.052426834 \times 10^{1077208509801827}, 1.276854911$
 $\times 10^{1077208509801827}]]$, $[0.58, [3.641060546 \times 10^{2154417019603653}, 4.417509975$
 $\times 10^{2154417019603653}]]$, $[0.59, [4.358126944 \times 10^{4308834039207306}, 5.287489460$
 $\times 10^{4308834039207306}]]$, $[0.60, [6.243725878 \times 10^{8617668078414612}, 7.575188875$
 $\times 10^{8617668078414612}]]$, $[0.61, [1.281538714 \times 10^{17235336156829225}, 1.554824475$
 $\times 10^{17235336156829225}]]$, $[0.62, [5.398927996 \times 10^{34470672313658449}, 6.550239411$
 $\times 10^{34470672313658449}]]$, $[0.63, [9.582065733 \times 10^{68941344627316898}, 1.162542354$
 $\times 10^{68941344627316898}]]$, $[0.64, [3.018299743 \times 10^{137882689254633797}, 3.661946583$
 $\times 10^{137882689254633797}]]$, $[0.65, [2.994806786 \times 10^{275765378509267594}, 3.633443795$
 $\times 10^{275765378509267594}]]$, $[0.66, [2.948368019 \times 10^{551530757018535188}, 3.577102050$
 $\times 10^{551530757018535188}]]$, $[0.67, [2.857639622 \times 10^{1103061514037070376}, 3.467025987$
 $\times 10^{1103061514037070376}]]$, $[0.68, [2.684472705 \times 10^{2206123028074140752}, 3.256931547$

$\times 10^{2206123028074140752}]$, [0.69, [2.368983630 $\times 10^{4412246056148281504}$, 2.874165012
 $\times 10^{4412246056148281504}]$, [0.70, [1.844880304 $\times 10^{8824492112296563008}$, 2.238297620
 $\times 10^{8824492112296563008}]$, [0.71, [Float(∞), Float(∞)]], [0.72, [Float(∞), Float(∞)]],
[0.73, [Float(∞), Float(∞)]], [0.74, [Float(∞), Float(∞)]], [0.75, [Float(∞),
Float(∞)]], [0.76, [Float(∞), Float(∞)]], [0.77, [Float(∞), Float(∞)]], [0.78, [
Float(∞), Float(∞)]], [0.79, [Float(∞), Float(∞)]], [0.80, [Float(∞), Float(∞)]],
[0.81, [Float(∞), Float(∞)]], [0.82, [Float(∞), Float(∞)]], [0.83, [Float(∞),
Float(∞)]], [0.84, [Float(∞), Float(∞)]], [0.85, [Float(∞), Float(∞)]], [0.86, [
Float(∞), Float(∞)]], [0.87, [Float(∞), Float(∞)]], [0.88, [Float(∞), Float(∞)]],
[0.89, [Float(∞), Float(∞)]], [0.90, [Float(∞), Float(∞)]], [0.91, [Float(∞),
Float(∞)]], [0.92, [Float(∞), Float(∞)]], [0.93, [Float(∞), Float(∞)]], [0.94, [
Float(∞), Float(∞)]], [0.95, [Float(∞), Float(∞)]], [0.96, [Float(∞), Float(∞)]],
[0.97, [Float(∞), Float(∞)]], [0.98, [Float(∞), Float(∞)]], [0.99, [Float(∞),
Float(∞)]], [1.00, [Float(∞), Float(∞)]], [1.01, [Float(∞), Float(∞)]], [1.02, [
Float(∞), Float(∞)]], [1.03, [Float(∞), Float(∞)]], [1.04, [Float(∞), Float(∞)]],
[1.05, [Float(∞), Float(∞)]], [1.06, [Float(∞), Float(∞)]], [1.07, [Float(∞),
Float(∞)]], [1.08, [Float(∞), Float(∞)]], [1.09, [Float(∞), Float(∞)]], [1.10, [
Float(∞), Float(∞)]], [1.11, [Float(∞), Float(∞)]], [1.12, [Float(∞), Float(∞)]],
[1.13, [Float(∞), Float(∞)]], [1.14, [Float(∞), Float(∞)]], [1.15, [Float(∞),
Float(∞)]], [1.16, [Float(∞), Float(∞)]], [1.17, [Float(∞), Float(∞)]], [1.18, [
Float(∞), Float(∞)]], [1.19, [Float(∞), Float(∞)]], [1.20, [Float(∞), Float(∞)]],
[1.21, [Float(∞), Float(∞)]], [1.22, [Float(∞), Float(∞)]], [1.23, [Float(∞),
Float(∞)]], [1.24, [Float(∞), Float(∞)]], [1.25, [Float(∞), Float(∞)]], [1.26, [
Float(∞), Float(∞)]], [1.27, [Float(∞), Float(∞)]], [1.28, [Float(∞), Float(∞)]],
[1.29, [Float(∞), Float(∞)]], [1.30, [Float(∞), Float(∞)]], [1.31, [Float(∞),
Float(∞)]], [1.32, [Float(∞), Float(∞)]], [1.33, [Float(∞), Float(∞)]], [1.34, [
Float(∞), Float(∞)]], [1.35, [Float(∞), Float(∞)]], [1.36, [Float(∞), Float(∞)]],
[1.37, [Float(∞), Float(∞)]], [1.38, [Float(∞), Float(∞)]], [1.39, [Float(∞),
Float(∞)]], [1.40, [Float(∞), Float(∞)]], [1.41, [Float(∞), Float(∞)]], [1.42, [
Float(∞), Float(∞)]], [1.43, [Float(∞), Float(∞)]], [1.44, [Float(∞), Float(∞)]],
[1.45, [Float(∞), Float(∞)]], [1.46, [Float(∞), Float(∞)]], [1.47, [Float(∞),
Float(∞)]], [1.48, [Float(∞), Float(∞)]], [1.49, [Float(∞), Float(∞)]], [1.50, [
Float(∞), Float(∞)]], [1.51, [Float(∞), Float(∞)]], [1.52, [Float(∞), Float(∞)]],
[1.53, [Float(∞), Float(∞)]], [1.54, [Float(∞), Float(∞)]], [1.55, [Float(∞),
Float(∞)]], [1.56, [Float(∞), Float(∞)]], [1.57, [Float(∞), Float(∞)]], [1.58, [
Float(∞), Float(∞)]], [1.59, [Float(∞), Float(∞)]], [1.60, [Float(∞), Float(∞)]],
[1.61, [Float(∞), Float(∞)]], [1.62, [Float(∞), Float(∞)]], [1.63, [Float(∞),

Float(∞), Float(∞)]], [9.75, [Float(∞), Float(∞)]], [9.76, [Float(∞), Float(∞)]], [9.77, [Float(∞), Float(∞)]], [9.78, [Float(∞), Float(∞)]], [9.79, [Float(∞), Float(∞)]], [9.80, [Float(∞), Float(∞)]], [9.81, [Float(∞), Float(∞)]], [9.82, [Float(∞), Float(∞)]], [9.83, [Float(∞), Float(∞)]], [9.84, [Float(∞), Float(∞)]], [9.85, [Float(∞), Float(∞)]], [9.86, [Float(∞), Float(∞)]], [9.87, [Float(∞), Float(∞)]], [9.88, [Float(∞), Float(∞)]], [9.89, [Float(∞), Float(∞)]], [9.90, [Float(∞), Float(∞)]], [9.91, [Float(∞), Float(∞)]], [9.92, [Float(∞), Float(∞)]], [9.93, [Float(∞), Float(∞)]], [9.94, [Float(∞), Float(∞)]], [9.95, [Float(∞), Float(∞)]], [9.96, [Float(∞), Float(∞)]], [9.97, [Float(∞), Float(∞)]], [9.98, [Float(∞), Float(∞)]], [9.99, [Float(∞), Float(∞)]], [10.00, [Float(∞), Float(∞)]], [10.01, [Float(∞), Float(∞)]]]

> $Dis2\left(F, x, y, \left[0.01, \frac{3}{2} + 0.01\right], 0.01, 10\right);$

[[0.01, [0.01, 1.510000000]], [0.02, [0.008028000000, 1.510183000]], [0.03, [0.006228937495, 1.510351880]], [0.04, [0.004588049538, 1.510508329]], [0.05, [0.003091683490, 1.510653822]], [0.06, [0.001727240302, 1.510789652]], [0.07, [0.000483115137, 1.510916949]], [0.08, [-0.000651362352, 1.511036706]], [0.09, [-0.001685988365, 1.511149793]], [0.10, [-0.002629743623, 1.511256976]], [0.11, [-0.003490850952, 1.511358929]], [0.12, [-0.004276830463, 1.511456246]], [0.13, [-0.004994552561, 1.511549453]], [0.14, [-0.005650288270, 1.511639014]], [0.15, [-0.006249756508, 1.511725340]], [0.16, [-0.006798168841, 1.511808795]], [0.17, [-0.007300270971, 1.511889703]], [0.18, [-0.007760381901, 1.511968352]], [0.19, [-0.008182429948, 1.512044999]], [0.20, [-0.008569986382, 1.512119872]], [0.21, [-0.008926296213, 1.512193175]], [0.22, [-0.009254306881, 1.512265090]], [0.23, [-0.009556694351, 1.512335781]], [0.24, [-0.009835887601, 1.512405393]], [0.25, [-0.01009409046, 1.512474057]], [0.26, [-0.01033330196, 1.512541891]], [0.27, [-0.01055533507, 1.512609000]], [0.28, [-0.01076183350, 1.512675478]], [0.29, [-0.01095428713, 1.512741411]], [0.30, [-0.01113404638, 1.512806875]], [0.31, [-0.01130233482, 1.512871939]], [0.32, [-0.01146026109, 1.512936666]], [0.33, [-0.01160882960, 1.513001111]], [0.34, [-0.01174894998, 1.513065325]], [0.35, [-0.01188144613, 1.513129353]], [0.36, [-0.01200706416, 1.513193236]], [0.37, [-0.01212647963, 1.513257012]], [0.38, [-0.01224030432, 1.513320714]], [0.39, [-0.01234909205, 1.513384373]], [0.40, [-0.01245334436, 1.513448016]], [0.41, [-0.01255351515, 1.513511667]], [0.42, [-0.01265001532, 1.513575350]], [0.43, [-0.01274321685, 1.513639084]], [0.44, [-0.01283345642, 1.513702888]], [0.45, [-0.01292103880, 1.513766779]], [0.46, [-0.01300623986, 1.513830772]], [0.47, [-0.01308930931, 1.513894881]], [0.48, [-0.01317047316, 1.513959118]], [0.49, [-0.01324993599, 1.514023494]], [0.50, [-0.01332788283, 1.514088020]], [0.51,

(11)

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$$> \text{Dis2}\left(F, x, y, \left[-\frac{1}{10} + 0.01, \frac{8}{5} + 0.01\right], 0.01, 10\right);$$

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> $Dis2\left(F, x, y, \left[\frac{5}{4} + 0.01, \frac{7}{8} + 0.01\right], 0.01, 10\right);$

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(13)

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 $\times 10^{70910096231662}$]], [0.76, [$1.691684982 \times 10^{141820192463324}$, 2.052433678
 $\times 10^{141820192463324}$]], [0.77, [$9.407691404 \times 10^{283640384926647}$, 1.141386420
 $\times 10^{283640384926648}$]], [0.78, [$2.909445329 \times 10^{567280769853295}$, 3.529879165
 $\times 10^{567280769853295}$]], [0.79, [$2.782687752 \times 10^{1134561539706590}$, 3.376090770
 $\times 10^{1134561539706590}$]], [0.80, [$2.545499568 \times 10^{2269123079413180}$, 3.088322646
 $\times 10^{2269123079413180}$]], [0.81, [$2.130051630 \times 10^{4538246158826360}$, 2.584281202
 $\times 10^{4538246158826360}$]], [0.82, [$1.491503702 \times 10^{9076492317652720}$, 1.809564109
 $\times 10^{9076492317652720}$]], [0.83, [$7.312952395 \times 10^{18152984635305439}$, 8.872425975
 $\times 10^{18152984635305439}$]], [0.84, [$1.758043301 \times 10^{36305969270610879}$, 2.132942784
 $\times 10^{36305969270610879}$]], [0.85, [$1.016022230 \times 10^{72611938541221758}$, 1.232687092
 $\times 10^{72611938541221758}$]], [0.86, [$3.393520642 \times 10^{145223877082443515}$, 4.117182646
 $\times 10^{145223877082443515}$]], [0.87, [$3.785690155 \times 10^{290447754164887030}$, 4.592981580
 $\times 10^{290447754164887030}$]], [0.88, [$4.711228909 \times 10^{580895508329774060}$, 5.715889764
 $\times 10^{580895508329774060}$]], [0.89, [$7.296464729 \times 10^{1161791016659548120}$, 8.852422344
 $\times 10^{1161791016659548120}$]], [0.90, [$1.750124925 \times 10^{2323582033319096241}$, 2.123335829
 $\times 10^{2323582033319096241}$]], [0.91, [$1.006890341 \times 10^{4647164066638192482}$, 1.221607845
 $\times 10^{4647164066638192482}$]], [0.92, [Float(∞), Float(∞)]], [0.93, [Float(∞), Float(∞)]],
[0.94, [Float(∞), Float(∞)]], [0.95, [Float(∞), Float(∞)]], [0.96, [Float(∞),
Float(∞)]], [0.97, [Float(∞), Float(∞)]], [0.98, [Float(∞), Float(∞)]], [0.99, [
Float(∞), Float(∞)]], [1.00, [Float(∞), Float(∞)]], [1.01, [Float(∞), Float(∞)]],
[1.02, [Float(∞), Float(∞)]], [1.03, [Float(∞), Float(∞)]], [1.04, [Float(∞),
Float(∞)]], [1.05, [Float(∞), Float(∞)]], [1.06, [Float(∞), Float(∞)]], [1.07, [
Float(∞), Float(∞)]], [1.08, [Float(∞), Float(∞)]], [1.09, [Float(∞), Float(∞)]],

Float(∞)], [9.21, [Float(∞), Float(∞)]], [9.22, [Float(∞), Float(∞)]], [9.23, [Float(∞), Float(∞)]], [9.24, [Float(∞), Float(∞)]], [9.25, [Float(∞), Float(∞)]], [9.26, [Float(∞), Float(∞)]], [9.27, [Float(∞), Float(∞)]], [9.28, [Float(∞), Float(∞)]], [9.29, [Float(∞), Float(∞)]], [9.30, [Float(∞), Float(∞)]], [9.31, [Float(∞), Float(∞)]], [9.32, [Float(∞), Float(∞)]], [9.33, [Float(∞), Float(∞)]], [9.34, [Float(∞), Float(∞)]], [9.35, [Float(∞), Float(∞)]], [9.36, [Float(∞), Float(∞)]], [9.37, [Float(∞), Float(∞)]], [9.38, [Float(∞), Float(∞)]], [9.39, [Float(∞), Float(∞)]], [9.40, [Float(∞), Float(∞)]], [9.41, [Float(∞), Float(∞)]], [9.42, [Float(∞), Float(∞)]], [9.43, [Float(∞), Float(∞)]], [9.44, [Float(∞), Float(∞)]], [9.45, [Float(∞), Float(∞)]], [9.46, [Float(∞), Float(∞)]], [9.47, [Float(∞), Float(∞)]], [9.48, [Float(∞), Float(∞)]], [9.49, [Float(∞), Float(∞)]], [9.50, [Float(∞), Float(∞)]], [9.51, [Float(∞), Float(∞)]], [9.52, [Float(∞), Float(∞)]], [9.53, [Float(∞), Float(∞)]], [9.54, [Float(∞), Float(∞)]], [9.55, [Float(∞), Float(∞)]], [9.56, [Float(∞), Float(∞)]], [9.57, [Float(∞), Float(∞)]], [9.58, [Float(∞), Float(∞)]], [9.59, [Float(∞), Float(∞)]], [9.60, [Float(∞), Float(∞)]], [9.61, [Float(∞), Float(∞)]], [9.62, [Float(∞), Float(∞)]], [9.63, [Float(∞), Float(∞)]], [9.64, [Float(∞), Float(∞)]], [9.65, [Float(∞), Float(∞)]], [9.66, [Float(∞), Float(∞)]], [9.67, [Float(∞), Float(∞)]], [9.68, [Float(∞), Float(∞)]], [9.69, [Float(∞), Float(∞)]], [9.70, [Float(∞), Float(∞)]], [9.71, [Float(∞), Float(∞)]], [9.72, [Float(∞), Float(∞)]], [9.73, [Float(∞), Float(∞)]], [9.74, [Float(∞), Float(∞)]], [9.75, [Float(∞), Float(∞)]], [9.76, [Float(∞), Float(∞)]], [9.77, [Float(∞), Float(∞)]], [9.78, [Float(∞), Float(∞)]], [9.79, [Float(∞), Float(∞)]], [9.80, [Float(∞), Float(∞)]], [9.81, [Float(∞), Float(∞)]], [9.82, [Float(∞), Float(∞)]], [9.83, [Float(∞), Float(∞)]], [9.84, [Float(∞), Float(∞)]], [9.85, [Float(∞), Float(∞)]], [9.86, [Float(∞), Float(∞)]], [9.87, [Float(∞), Float(∞)]], [9.88, [Float(∞), Float(∞)]], [9.89, [Float(∞), Float(∞)]], [9.90, [Float(∞), Float(∞)]], [9.91, [Float(∞), Float(∞)]], [9.92, [Float(∞), Float(∞)]], [9.93, [Float(∞), Float(∞)]], [9.94, [Float(∞), Float(∞)]], [9.95, [Float(∞), Float(∞)]], [9.96, [Float(∞), Float(∞)]], [9.97, [Float(∞), Float(∞)]], [9.98, [Float(∞), Float(∞)]], [9.99, [Float(∞), Float(∞)]], [10.00, [Float(∞), Float(∞)]], [10.01, [Float(∞), Float(∞)]]

> #2 (iii)

$F := \text{RandNice}([x, y], 8);$

$\text{EquPts}(F, [x, y]);$

$\text{StEquPts}(F, [x, y]);$

$F := [(5 - 4x - 5y) (6 - 2x - 3y), (7 - 8x - 2y) (6 - 4x - y)]$

$\left\{ \left[\frac{6}{5}, \frac{6}{5} \right], \left[\frac{9}{20}, \frac{17}{10} \right], \left[\frac{25}{16}, -\frac{1}{4} \right], \left[\frac{25}{32}, \frac{3}{8} \right] \right\}$

$$\left\{ \left[\frac{25}{16}, -\frac{1}{4} \right] \right\} \quad (14)$$

$$> \text{Dis2}\left(F, x, y, \left[\frac{6}{5} + 0.01, \frac{6}{5} + 0.01 \right], 0.01, 10\right);$$

$$\begin{aligned} & [[0.01, [1.210000000, 1.210000000]], [0.02, [1.212945000, 1.212550000]], [0.03, \\ & [1.216703092, 1.215849267]], [0.04, [1.221516663, 1.220119008]], [0.05, \\ & [1.227706293, 1.225653799]], [0.06, [1.235700482, 1.232850278]], [0.07, \\ & [1.246079529, 1.242249962]], [0.08, [1.259642181, 1.254605028]], [0.09, \\ & [1.277510268, 1.270982733]], [0.10, [1.301299280, 1.292937506]], [0.11, \\ & [1.333408844, 1.322806999]], [0.12, [1.377543134, 1.364247450]], [0.13, \\ & [1.439700924, 1.423260656]], [0.14, [1.530200379, 1.510309396]], [0.15, \\ & [1.668205971, 1.645075398]], [0.16, [1.893057277, 1.868423504]], [0.17, \\ & [2.297118649, 2.277217943]], [0.18, [3.142177552, 3.147978469]], [0.19, \\ & [5.409706122, 5.522093681]], [0.20, [14.87272418, 15.53582874]], [0.21, \\ & [107.8582262, 114.2809416]], [0.22, [5621.502527, 5967.087355]], [0.23, [1.524972754 \\ & \times 10^7, 1.619213653 \times 10^7]], [0.24, [1.122557782 \times 10^{14}, 1.191691553 \times 10^{14}]], [0.25, \\ & [6.081335692 \times 10^{27}, 6.456849069 \times 10^{27}]], [0.26, [1.785082516 \times 10^{55}, 1.895086669 \\ & \times 10^{55}]], [0.27, [1.537859527 \times 10^{110}, 1.632775111 \times 10^{110}]], [0.28, [1.141509465 \\ & \times 10^{220}, 1.211879509 \times 10^{220}]], [0.29, [6.288831246 \times 10^{439}, 6.676865826 \times 10^{439}]], \\ & [0.30, [1.908876260 \times 10^{879}, 2.026576744 \times 10^{879}]], [0.31, [1.758623213 \times 10^{1758}, \\ & 1.867116488 \times 10^{1758}]], [0.32, [1.492721013 \times 10^{3516}, 1.584772977 \times 10^{3516}]], [0.33, \\ & [1.075420354 \times 10^{7032}, 1.141759062 \times 10^{7032}]], [0.34, [5.581959842 \times 10^{14063}, \\ & 5.926208850 \times 10^{14063}]], [0.35, [1.503822391 \times 10^{28127}, 1.596582482 \times 10^{28127}]], [0.36, \\ & [1.091494712 \times 10^{56254}, 1.158811921 \times 10^{56254}]], [0.37, [5.749997750 \times 10^{112507}, \\ & 6.104662609 \times 10^{112507}]], [0.38, [1.595742894 \times 10^{225015}, 1.694161724 \times 10^{225015}]], \\ & [0.39, [1.228997460 \times 10^{450030}, 1.304801647 \times 10^{450030}]], [0.40, [7.290024217 \\ & \times 10^{900059}, 7.739649342 \times 10^{900059}]], [0.41, [2.564977289 \times 10^{1800119}, 2.723182541 \\ & \times 10^{1800119}]], [0.42, [3.175365454 \times 10^{3600238}, 3.371213401 \times 10^{3600238}]], [0.43, \\ & [4.866461236 \times 10^{7200476}, 5.166617773 \times 10^{7200476}]], [0.44, [1.143017840 \times 10^{14400953}, \\ & 1.213516439 \times 10^{14400953}]], [0.45, [6.305681116 \times 10^{28801905}, 6.694605237 \\ & \times 10^{28801905}]], [0.46, [1.919068011 \times 10^{57603811}, 2.037431870 \times 10^{57603811}]], [0.47, \\ & [1.777488528 \times 10^{115207622}, 1.887120875 \times 10^{115207622}]], [0.48, [1.524894873 \\ & \times 10^{230415244}, 1.618947166 \times 10^{230415244}]], [0.49, [1.122292170 \times 10^{460830488}, \end{aligned} \quad (15)$$

$1.191513075 \times 10^{460830488}]$, $[0.50, [6.079083635 \times 10^{921660975}, 6.454029040$
 $\times 10^{921660975}]$, $[0.51, [1.783620236 \times 10^{1843321951}, 1.893630550 \times 10^{1843321951}]$, $[0.52,$
 $[1.535433499 \times 10^{3686643902}, 1.630135943 \times 10^{3686643902}]$, $[0.53, [1.137858335$
 $\times 10^{7373287804}, 1.208039247 \times 10^{7373287804}]$, $[0.54, [6.248886066 \times 10^{14746575607},$
 $6.634304894 \times 10^{14746575607}]$, $[0.55, [1.884652977 \times 10^{29493151215}, 2.000894715$
 $\times 10^{29493151215}]$, $[0.56, [1.714308577 \times 10^{58986302430}, 1.820043733 \times 10^{58986302430}]$,
 $[0.57, [1.418417838 \times 10^{117972604860}, 1.505903085 \times 10^{117972604860}]$, $[0.58,$
 $[9.710343041 \times 10^{235945209719}, 1.030925782 \times 10^{235945209720}]$, $[0.59, [4.550879506$
 $\times 10^{471890419439}, 4.831568855 \times 10^{471890419439}]$, $[0.60, [9.995784270 \times 10^{943780838878},$
 $1.061230455 \times 10^{943780838879}]$, $[0.61, [4.822363495 \times 10^{1887561677757}, 5.119797429$
 $\times 10^{1887561677757}]$, $[0.62, [1.122395936 \times 10^{3775123355515}, 1.191623109$
 $\times 10^{3775123355515}]$, $[0.63, [6.080207018 \times 10^{7550246711029}, 6.455222264$
 $\times 10^{7550246711029}]$, $[0.64, [1.784279686 \times 10^{15100493422059}, 1.894330548$
 $\times 10^{15100493422059}]$, $[0.65, [1.536568967 \times 10^{30200986844118}, 1.631341527$
 $\times 10^{30200986844118}]$, $[0.66, [1.139541940 \times 10^{60401973688236}, 1.209826647$
 $\times 10^{60401973688236}]$, $[0.67, [6.267391493 \times 10^{120803947376471}, 6.653951894$
 $\times 10^{120803947376471}]$, $[0.68, [1.895831979 \times 10^{241607894752943}, 2.012763171$
 $\times 10^{241607894752943}]$, $[0.69, [1.734706023 \times 10^{483215789505886}, 1.841699283$
 $\times 10^{483215789505886}]$, $[0.70, [1.452372341 \times 10^{966431579011772}, 1.541951815$
 $\times 10^{966431579011772}]$, $[0.71, [1.018080540 \times 10^{1932863158023544}, 1.080873748$
 $\times 10^{1932863158023544}]$, $[0.72, [5.002538841 \times 10^{3865726316047087}, 5.311085615$
 $\times 10^{3865726316047087}]$, $[0.73, [1.207833680 \times 10^{7731452632094175}, 1.282330490$
 $\times 10^{7731452632094175}]$, $[0.74, [7.041099288 \times 10^{15462905264188349}, 7.475380460$
 $\times 10^{15462905264188349}]$, $[0.75, [2.392804042 \times 10^{30925810528376699}, 2.540387496$
 $\times 10^{30925810528376699}]$, $[0.76, [2.763379072 \times 10^{61851621056753398}, 2.933818866$
 $\times 10^{61851621056753398}]$, $[0.77, [3.685590886 \times 10^{123703242113506796}, 3.912910896$
 $\times 10^{123703242113506796}]$, $[0.78, [6.556022687 \times 10^{247406484227013592}, 6.960385289$
 $\times 10^{247406484227013592}]$, $[0.79, [2.074469683 \times 10^{494812968454027185}, 2.202418900$
 $\times 10^{494812968454027185}]$, $[0.80, [2.077018582 \times 10^{989625936908054370}, 2.205125006$
 $\times 10^{989625936908054370}]$, $[0.81, [2.082125774 \times 10^{1979251873816108740}, 2.210547204$
 $\times 10^{1979251873816108740}]$, $[0.82, [2.092377868 \times 10^{3958503747632217480}, 2.221431625$
 $\times 10^{3958503747632217480}]$, $[0.83, [2.113033741 \times 10^{7917007495264434960}, 2.243361514$

Float(∞), Float(∞)]], [9.96, [Float(∞), Float(∞)]], [9.97, [Float(∞), Float(∞)]],
[9.98, [Float(∞), Float(∞)]], [9.99, [Float(∞), Float(∞)]], [10.00, [Float(∞),
Float(∞)]], [10.01, [Float(∞), Float(∞)]]]

> $Dis2\left(F, x, y, \left[\frac{9}{20} + 0.01, \frac{17}{10} + 0.01\right], 0.01, 10\right);$

[[0.01, [0.4600000000, 1.7100000000]], [0.02, [0.4626950000, 1.7075500000]], [0.03,
[0.4652836498, 1.704701548]], [0.04, [0.4676890742, 1.701496429]], [0.05,
[0.4698332399, 1.697988202]], [0.06, [0.4716389850, 1.694241715]], [0.07,
[0.4730321707, 1.690332397]], [0.08, [0.4739439033, 1.686345340]], [0.09,
[0.4743127703, 1.682374169]], [0.10, [0.4740870290, 1.678519710]], [0.11,
[0.4732266860, 1.674888423]], [0.12, [0.4717054041, 1.671590588]], [0.13,
[0.4695121743, 1.668738217]], [0.14, [0.4666526974, 1.666442652]], [0.15,
[0.4631504238, 1.664811831]], [0.16, [0.4590472130, 1.663947219]], [0.17,
[0.4544035850, 1.663940416]], [0.18, [0.4492985524, 1.664869483]], [0.19,
[0.4438290304, 1.666795082]], [0.20, [0.4381088366, 1.669756544]], [0.21,
[0.4322672943, 1.673768032]], [0.22, [0.4264474540, 1.678814984]], [0.23,
[0.4208039365, 1.684851065]], [0.24, [0.4155003931, 1.691795852]], [0.25,
[0.4107065580, 1.699533485]], [0.26, [0.4065948607, 1.707912508]], [0.27,
[0.4033365588, 1.716747094]], [0.28, [0.4010973650, 1.725819793]], [0.29,
[0.4000325652, 1.734885908]], [0.30, [0.4002816750, 1.743679493]], [0.31,
[0.4019627419, 1.751920886]], [0.32, [0.4051664763, 1.759325572]], [0.33,
[0.4099504705, 1.765614039]], [0.34, [0.4163338316, 1.770522166]], [0.35,
[0.4242925949, 1.773811577]], [0.36, [0.4337562918, 1.775279320]], [0.37,
[0.4446060063, 1.774766219]], [0.38, [0.4566741741, 1.772163291]], [0.39,
[0.4697462532, 1.767415758]], [0.40, [0.4835642533, 1.760524383]], [0.41,
[0.4978319662, 1.751544109]], [0.42, [0.5122216193, 1.740580246]], [0.43,
[0.5263815990, 1.727782730]], [0.44, [0.5399448761, 1.713339173]], [0.45,
[0.5525378118, 1.697467590]], [0.46, [0.5637891220, 1.680409710]], [0.47,
[0.5733389013, 1.662425758]], [0.48, [0.5808477322, 1.643791423]], [0.49,
[0.5860059807, 1.624797492]], [0.50, [0.5885433806, 1.605752292]], [0.51,
[0.5882389023, 1.586986636]], [0.52, [0.5849306781, 1.568860507]], [0.53,
[0.5785254456, 1.551770151]], [0.54, [0.5690066256, 1.536153800]], [0.55,
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(16)

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$$\text{> } \text{Dis2}\left(F, x, y, \left[\frac{25}{16} + 0.01, -\frac{1}{4} + 0.01\right], 0.01, 10\right);$$

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> $Dis2\left(F, x, y, \left[\frac{25}{32} + 0.01, \frac{3}{8} + 0.01\right], 0.01, 10\right);$

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(18)

[0.7798322141, 0.3774405642]], [0.14, [0.7796161453, 0.3776023019]], [0.15, [0.7794019187, 0.3777992671]], [0.16, [0.7791834713, 0.3780293419]], [0.17, [0.7789558925, 0.3782917290]], [0.18, [0.7787150541, 0.3785866566]], [0.19, [0.7784573379, 0.3789151718]], [0.20, [0.7781794331, 0.3792789985]], [0.21, [0.7778781843, 0.3796804430]], [0.22, [0.7775504751, 0.3801223352]], [0.23, [0.7771931370, 0.3806079958]], [0.24, [0.7768028759, 0.3811412241]], [0.25, [0.7763762106, 0.3817263009]], [0.26, [0.7759094187, 0.3823680046]], [0.27, [0.7753984879, 0.3830716374]], [0.28, [0.7748390693, 0.3838430608]], [0.29, [0.7742264313, 0.3846887392]], [0.30, [0.7735554130, 0.3856157913]], [0.31, [0.7728203756, 0.3866320497]], [0.32, [0.7720151512, 0.3877461283]], [0.33, [0.7711329874, 0.3889674979]], [0.34, [0.7701664886, 0.3903065711]], [0.35, [0.7691075511, 0.3917747967]], [0.36, [0.7679472929, 0.3933847651]], [0.37, [0.7666759770, 0.3951503254]], [0.38, [0.7652829272, 0.3970867157]], [0.39, [0.7637564361, 0.3992107085]], [0.40, [0.7620836635, 0.4015407719]], [0.41, [0.7602505258, 0.4040972501]], [0.42, [0.7582415739, 0.4069025641]], [0.43, [0.7560398591, 0.4099814362]], [0.44, [0.7536267865, 0.4133611411]], [0.45, [0.7509819534, 0.4170717864]], [0.46, [0.7480829728, 0.4211466277]], [0.47, [0.7449052793, 0.4256224211]], [0.48, [0.7414219171, 0.4305398199]], [0.49, [0.7376033084, 0.4359438202]], [0.50, [0.7334170007, 0.4418842619]], [0.51, [0.7288273921, 0.4484163934]], [0.52, [0.7237954336, 0.4556015076]], [0.53, [0.7182783082, 0.4635076583]], [0.54, [0.7122290871, 0.4722104684]], [0.55, [0.7055963643, 0.4817940399]], [0.56, [0.6983238724, 0.4923519784]], [0.57, [0.6903500854, 0.5039885452]], [0.58, [0.6816078160, 0.5168199484]], [0.59, [0.6720238214, 0.5309757866]], [0.60, [0.6615184353, 0.5466006542]], [0.61, [0.6500052555, 0.5638559150]], [0.62, [0.6373909252, 0.5829216424]], [0.63, [0.6235750653, 0.6039987157]], [0.64, [0.6084504358, 0.6273110411]], [0.65, [0.5919034339, 0.6531078417]], [0.66, [0.5738150799, 0.6816659190]], [0.67, [0.5540626930, 0.7132917303]], [0.68, [0.5325225342, 0.7483230403]], [0.69, [0.5090737843, 0.7871297850]], [0.70, [0.4836043490, 0.8301136156]], [0.71, [0.4560191309, 0.8777053577]], [0.72, [0.4262515911, 0.9303593069]], [0.73, [0.3942796312, 0.9885428738]], [0.74, [0.3601470399, 1.052719576]], [0.75, [0.3239919288, 1.123322776]], [0.76, [0.2860836471, 1.200716912]], [0.77,

[0.2468694745, 1.285142458]], [0.78, [0.2070317182, 1.376640656]], [0.79, [0.1675543554, 1.474954823]], [0.80, [0.1297956437, 1.579407376]], [0.81, [0.09555875061, 1.688756881]], [0.82, [0.06714627688, 1.801048571]], [0.83, [0.04737718419, 1.913485843]], [0.84, [0.03953831638, 2.022368597]], [0.85, [0.04724212464, 2.123162955]], [0.86, [0.07417475838, 2.210777016]], [0.87, [0.1237525343, 2.280105289]], [0.88, [0.1987636248, 2.326858671]], [0.89, [0.3011477101, 2.348622006]], [0.90, [0.4321386510, 2.346017996]], [0.91, [0.5930500936, 2.323892039]], [0.92, [0.7870700148, 2.292700160]], [0.93, [1.022773999, 2.270999233]], [0.94, [1.321380317, 2.291726254]], [0.95, [1.734532486, 2.420342825]], [0.96, [2.398630230, 2.813853250]], [0.97, [3.749668228, 3.955617149]], [0.98, [7.729685743, 7.959604271]], [0.99, [29.63846175, 31.22323598]], [1.00, [425.9094822, 451.8490821]], [1.01, [87553.41594, 92965.21164]], [1.02, [3.700316394 × 10⁹, 3.928159073 × 10⁹]], [1.03, [6.607747282 × 10¹⁸, 7.015826953 × 10¹⁸]], [1.04, [2.107519863 × 10³⁷, 2.237379012 × 10³⁷]], [1.05, [2.143581480 × 10⁷⁴, 2.275893400 × 10⁷⁴]], [1.06, [2.217832788 × 10¹⁴⁸, 2.354545186 × 10¹⁴⁸]], [1.07, [2.373922289 × 10²⁹⁶, 2.520405991 × 10²⁹⁶]], [1.08, [2.720022069 × 10⁵⁹², 2.887730852 × 10⁵⁹²]], [1.09, [3.570762187 × 10¹¹⁸⁴, 3.791056871 × 10¹¹⁸⁴]], [1.10, [6.153975992 × 10²³⁶⁸, 6.533465879 × 10²³⁶⁸]], [1.11, [1.827813438 × 10⁴⁷³⁷, 1.940566484 × 10⁴⁷³⁷]], [1.12, [1.612480468 × 10⁹⁴⁷⁴, 1.711923553 × 10⁹⁴⁷⁴]], [1.13, [1.254907323 × 10¹⁸⁹⁴⁸, 1.332314415 × 10¹⁸⁹⁴⁸]], [1.14, [7.600674919 × 10³⁷⁸⁹⁵, 8.069437769 × 10³⁷⁸⁹⁵]], [1.15, [2.788229274 × 10⁷⁵⁷⁹¹, 2.960210720 × 10⁷⁵⁷⁹¹]], [1.16, [3.752189087 × 10¹⁵¹⁵⁸², 3.983607536 × 10¹⁵¹⁵⁸²]], [1.17, [6.795077905 × 10³⁰³¹⁶⁴, 7.214197721 × 10³⁰³¹⁶⁴]], [1.18, [2.228517183 × 10⁶⁰⁶³²⁹, 2.365964545 × 10⁶⁰⁶³²⁹]], [1.19, [2.396941721 × 10¹²¹²⁶⁵⁸, 2.544783015 × 10¹²¹²⁶⁵⁸]], [1.20, [2.772947706 × 10²⁴²⁵³¹⁶, 2.943975342 × 10²⁴²⁵³¹⁶]], [1.21, [3.711155468 × 10⁴⁸⁵⁰⁶³², 3.940054635 × 10⁴⁸⁵⁰⁶³²]], [1.22, [6.647292739 × 10⁹⁷⁰¹²⁶⁴, 7.057281426 × 10⁹⁷⁰¹²⁶⁴]], [1.23, [2.132630266 × 10¹⁹⁴⁰²⁵²⁹, 2.264167516 × 10¹⁹⁴⁰²⁵²⁹]], [1.24, [2.195116207 × 10³⁸⁸⁰⁵⁰⁵⁸, 2.330506031 × 10³⁸⁸⁰⁵⁰⁵⁸]], [1.25, [2.325632511 × 10⁷⁷⁶¹⁰¹¹⁶, 2.469073469 × 10⁷⁷⁶¹⁰¹¹⁶]], [1.26, [2.610408551 × 10¹⁵⁵²²⁰²³², 2.771412985 × 10¹⁵⁵²²⁰²³²]], [1.27, [3.288842548 × 10³¹⁰⁴⁴⁰⁴⁶⁴, 3.491692318 × 10³¹⁰⁴⁴⁰⁴⁶⁴]], [1.28, [5.220503888 × 10⁶²⁰⁸⁸⁰⁹²⁸, 5.542493804 × 10⁶²⁰⁸⁸⁰⁹²⁸]], [1.29, [1.315379280 × 10¹²⁴¹⁷⁶¹⁸⁵⁷, 1.396509389 × 10¹²⁴¹⁷⁶¹⁸⁵⁷]], [1.30, [8.350802759 × 10²⁴⁸³⁵²³⁷¹³,

$8.865863400 \times 10^{2483523713}]$, [1.31, [$3.365755945 \times 10^{4967047427}$, 3.573349308
 $\times 10^{4967047427}$]], [1.32, [$5.467533606 \times 10^{9934094854}$, $5.804760161 \times 10^{9934094854}$]],
[1.33, [$1.442809865 \times 10^{19868189709}$, $1.531799580 \times 10^{19868189709}$]], [1.34, [1.004718537
 $\times 10^{39736379418}$, $1.066687584 \times 10^{39736379418}$]], [1.35, [$4.872086809 \times 10^{79472758835}$,
 $5.172587624 \times 10^{79472758835}$]], [1.36, [$1.145661291 \times 10^{158945517671}$, 1.216323416
 $\times 10^{158945517671}$]], [1.37, [$6.334884052 \times 10^{317891035341}$, $6.725607318 \times 10^{317891035341}$]],
[1.38, [$1.936883690 \times 10^{635782070683}$, $2.056346859 \times 10^{635782070683}$]], [1.39,
[$1.810644868 \times 10^{1271564141366}$, $1.922321896 \times 10^{1271564141366}$]], [1.40, [1.582314308
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 $\times 10^{20345026261855}$]], [1.44, [$2.773812027 \times 10^{40690052523710}$, 2.944895302
 $\times 10^{40690052523710}$]], [1.45, [$3.713472826 \times 10^{81380105047420}$, 3.942512539
 $\times 10^{81380105047420}$]], [1.46, [$6.655592102 \times 10^{162760210094840}$, 7.066095948
 $\times 10^{162760210094840}$]], [1.47, [$2.137960081 \times 10^{325520420189681}$, 2.269825262
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 $\times 10^{10416653446069792}$]], [1.53, [$1.543207436 \times 10^{20833306892139585}$, 1.638389440
 $\times 10^{20833306892139585}$]], [1.54, [$1.149409577 \times 10^{41666613784279170}$, 1.220302903
 $\times 10^{41666613784279170}$]], [1.55, [$6.376403917 \times 10^{83333227568558339}$, 6.769687986
 $\times 10^{83333227568558339}$]], [1.56, [$1.962356176 \times 10^{166666455137116679}$, 2.083390452
 $\times 10^{166666455137116679}$]], [1.57, [$1.858582614 \times 10^{333332910274233358}$, 1.973216338
 $\times 10^{333332910274233358}$]], [1.58, [$1.667208582 \times 10^{666665820548466716}$, 1.770038734
 $\times 10^{666665820548466716}$]], [1.59, [$1.341547554 \times 10^{1333331641096933432}$, 1.424291572
 $\times 10^{1333331641096933432}$]], [1.60, [$8.686370322 \times 10^{2666663282193866863}$, 9.222128579
 $\times 10^{2666663282193866863}$]], [1.61, [$3.641689196 \times 10^{5333326564387733727}$, 3.866301435
 $\times 10^{5333326564387733727}$]], [1.62, [Float(∞), Float(∞)]], [1.63, [Float(∞), Float(∞)]],
[1.64, [Float(∞), Float(∞)]], [1.65, [Float(∞), Float(∞)]], [1.66, [Float(∞),
Float(∞)]], [1.67, [Float(∞), Float(∞)]], [1.68, [Float(∞), Float(∞)]], [1.69, [
Float(∞), Float(∞)]], [1.70, [Float(∞), Float(∞)]], [1.71, [Float(∞), Float(∞)]],

Float(∞)], [9.83, [Float(∞), Float(∞)]], [9.84, [Float(∞), Float(∞)]], [9.85, [Float(∞), Float(∞)]], [9.86, [Float(∞), Float(∞)]], [9.87, [Float(∞), Float(∞)]], [9.88, [Float(∞), Float(∞)]], [9.89, [Float(∞), Float(∞)]], [9.90, [Float(∞), Float(∞)]], [9.91, [Float(∞), Float(∞)]], [9.92, [Float(∞), Float(∞)]], [9.93, [Float(∞), Float(∞)]], [9.94, [Float(∞), Float(∞)]], [9.95, [Float(∞), Float(∞)]], [9.96, [Float(∞), Float(∞)]], [9.97, [Float(∞), Float(∞)]], [9.98, [Float(∞), Float(∞)]], [9.99, [Float(∞), Float(∞)]], [10.00, [Float(∞), Float(∞)]], [10.01, [Float(∞), Float(∞)]]]

> #3

$F2 := SIRS(s, i, \text{beta}, \text{gamma}, \text{nu}, N);$

$$F2 := [-\beta s i + \gamma(N - s - i), \beta s i - i \nu] \quad (19)$$

> $EquPts(F2, [s, i]);$

$$\left\{ [N, 0], \left[\frac{\nu}{\beta}, \frac{\gamma(N\beta - \nu)}{\beta(\gamma + \nu)} \right] \right\} \quad (20)$$

> #4

$Chemostat := \text{proc}(N, C, a1, a2) : \left[a1 \cdot \left(\frac{C}{1 + C} \right) \cdot N - N, - \left(\frac{C}{1 + C} \right) \cdot N - C + a2 \right] : \text{end};$

$F3 := Chemostat(N, C, a1, a2);$

$$F3 := \left[\frac{a1 C N}{C + 1} - N, - \frac{C N}{C + 1} - C + a2 \right] \quad (21)$$

> $EquPts(F3, [N, C]);$

$$\left\{ [0, a2], \left[\frac{a1(a2 a1 - a2 - 1)}{a1 - 1}, \frac{1}{a1 - 1} \right] \right\} \quad (22)$$

> #5 (i)

$Orb3 := \text{proc}(F, x, y, z, pt0, K1, K2) \text{ local } pt, L, i :$

$pt := pt0 :$

for i **from** 1 **to** $K1 - 1$ **do**

$pt := \text{subs}(\{x = pt[1], y = pt[2], z = pt[3]\}, F) :$

od:

$L := [] :$

for i **from** $K1$ **to** $K2$ **do**

$L := [op(L), pt] :$

$pt := \text{normal}(\text{subs}(\{x = pt[1], y = pt[2], z = pt[3]\}, F)) :$

od:

$L :$

end:

$Dis3 := \text{proc}(F, x, y, z, pt, h, A) \text{ local } L, i :$

$L := Orb3([x + h * F[1], y + h * F[2], z + h * F[3]], x, y, z, pt, 0, \text{trunc}(A/h)) :$

$L := [seq([i * h, [L[i][1], L[i][2], L[i][3]]], i = 1 .. nops(L))]:$

end:

> #5 (ii) #Due to the sheer number of points, I will only do a few using Dis3: One stable and one unstable to show that dis3 works

$G := RandNice([x, y, z], 10);$

$EquPts(G, [x, y, z]);$

$StEquPts(G, [x, y, z]);$

$G := [(8 - 10x - 3y - z)(1 - 3x - 5y - 5z), (10 - 10x - 10y - 2z)(8 - 4x - 2y - 9z), (5 - 9x - 7y - 4z)(3 - 10x - 9y - 10z)]$

$$\left\{ \left[\frac{2}{11}, 1, -\frac{10}{11} \right], \left[\frac{4}{147}, -\frac{131}{147}, \frac{158}{147} \right], \left[\frac{8}{7}, -\frac{39}{35}, \frac{22}{35} \right], \left[\frac{22}{51}, \frac{37}{51}, -\frac{40}{51} \right], \left[\frac{23}{29}, \frac{14}{29}, -\frac{40}{29} \right], \left[\frac{71}{69}, -\frac{338}{345}, \frac{224}{345} \right], \left[\frac{217}{285}, \frac{23}{57}, -\frac{47}{57} \right], \left[\frac{581}{444}, -\frac{431}{222}, \frac{82}{111} \right] \right\}$$

$$\left\{ \left[\frac{23}{29}, \frac{14}{29}, -\frac{40}{29} \right] \right\} \quad (23)$$

> $Dis3\left(G, x, y, z, \left[\frac{23}{29} + 0.01, \frac{14}{29} + 0.01, -\frac{40}{29} + 0.01 \right], 0.01, 10\right);$

$[[0.01, [0.8031034483, 0.4927586207, -1.369310345]], [0.02, [0.7989406207, 0.4572817242, -1.377764828]], [0.03, [0.7994699747, 0.4887704500, -1.372175259]], [0.04, [0.7967883636, 0.4664414238, -1.377711870]], [0.05, [0.7971209177, 0.4864855397, -1.374268998]], [0.06, [0.7954021945, 0.4723001368, -1.377889407]], [0.07, [0.7956210811, 0.4851174336, -1.375747006]], [0.08, [0.7945228574, 0.4760468591, -1.378116457]], [0.09, [0.7946712952, 0.4842704723, -1.376776851]], [0.10, [0.7939710088, 0.4784448126, -1.378331073]], [0.11, [0.7940734675, 0.4837339194, -1.377492910]], [0.12, [0.7936276574, 0.4799812631, -1.378515694]], [0.13, [0.7936990833, 0.4833890103, -1.377992815]], [0.14, [0.7934157072, 0.4809669798, -1.378668637]], [0.15, [0.7934657697, 0.4831654496, -1.378344535]], [0.16, [0.7932859364, 0.4816002576, -1.378793302]], [0.17, [0.7933211337, 0.4830200043, -1.378594484]], [0.18, [0.7932072277, 0.4820077407, -1.378894207]], [0.19, [0.7932320261, 0.4829253427, -1.378774116]], [0.20, [0.7931600492, 0.4822703934, -1.378975635]], [0.21, [0.7931775549, 0.4828638662, -1.378904736]], [0.22, [0.7931322103, 0.4824400308, -1.379041259]], [0.23, [0.7931445957, 0.4828241137, -1.379000834]], [0.24, [0.7931161410, 0.4825498480, -1.379094113]], [0.25, [0.7931249285, 0.4827985737, -1.379072331]], [0.26, [0.7931071642, 0.4826211334, -1.379136662]], [0.27, [0.7931134210, 0.4827823082, -1.379126082]], [0.28, [0.7931024059, 0.4826675548, -1.379170900]], [0.29, [0.7931068800, 0.4827720704, -1.379166877]], [0.30, [0.7931001121, 0.4826978992, -1.379198437]], [0.31, [0.7931033276, 0.4827657270, -1.379198101]], [0.32, [0.7930992208, 0.4827178230, -1.379220574]], [0.33, [0.7931015450, 0.4827618815, -1.379222175]], [0.34, [0.7930990961, 0.4827309727, -1.379238360]], [0.35,$

[0.7931007868, 0.4827596224, -1.379240855], [0.36, [0.7930993631, 0.4827397044, -1.379252644]], [0.37, [0.7931006013, 0.4827583581, -1.379255427]], [0.38, [0.7930998050, 0.4827455429, -1.379264109]], [0.39, [0.7931007183, 0.4827577070, -1.379266847]], [0.40, [0.7931003007, 0.4827494783, -1.379273307]], [0.41, [0.7931009792, 0.4827574247, -1.379275829]], [0.42, [0.7931007856, 0.4827521545, -1.379280683]], [0.43, [0.7931012934, 0.4827573570, -1.379282915]], [0.44, [0.7931012285, 0.4827539922, -1.379286595]], [0.45, [0.7931016112, 0.4827574073, -1.379288520]], [0.46, [0.7931016170, 0.4827552679, -1.379291333]], [0.47, [0.7931019074, 0.4827575167, -1.379292963]], [0.48, [0.7931019490, 0.4827561634, -1.379295128]], [0.49, [0.7931021708, 0.4827576497, -1.379296491]], [0.50, [0.7931022277, 0.4827567996, -1.379298168]], [0.51, [0.7931023981, 0.4827577864, -1.379299296]], [0.52, [0.7931024588, 0.4827572569, -1.379300602]], [0.53, [0.7931025905, 0.4827579156, -1.379301529]], [0.54, [0.7931026488, 0.4827575896, -1.379302550]], [0.55, [0.7931027510, 0.4827580317, -1.379303307]], [0.56, [0.7931028038, 0.4827578343, -1.379304109]], [0.57, [0.7931028835, 0.4827581333, -1.379304725]], [0.58, [0.7931029297, 0.4827580164, -1.379305357]], [0.59, [0.7931029921, 0.4827582203, -1.379305856]], [0.60, [0.7931030316, 0.4827581532, -1.379306355]], [0.61, [0.7931030806, 0.4827582935, -1.379306759]], [0.62, [0.7931031139, 0.4827582572, -1.379307154]], [0.63, [0.7931031525, 0.4827583544, -1.379307480]], [0.64, [0.7931031802, 0.4827583367, -1.379307793]], [0.65, [0.7931032106, 0.4827584046, -1.379308055]], [0.66, [0.7931032334, 0.4827583978, -1.379308304]], [0.67, [0.7931032575, 0.4827584460, -1.379308515]], [0.68, [0.7931032762, 0.4827584452, -1.379308713]], [0.69, [0.7931032953, 0.4827584797, -1.379308882]], [0.70, [0.7931033105, 0.4827584820, -1.379309040]], [0.71, [0.7931033257, 0.4827585072, -1.379309176]], [0.72, [0.7931033380, 0.4827585109, -1.379309301]], [0.73, [0.7931033500, 0.4827585293, -1.379309410]], [0.74, [0.7931033600, 0.4827585337, -1.379309510]], [0.75, [0.7931033696, 0.4827585472, -1.379309597]], [0.76, [0.7931033776, 0.4827585514, -1.379309677]], [0.77, [0.7931033853, 0.4827585618, -1.379309747]], [0.78, [0.7931033918, 0.4827585655, -1.379309811]], [0.79, [0.7931033979, 0.4827585735, -1.379309867]], [0.80, [0.7931034031, 0.4827585768, -1.379309918]], [0.81, [0.7931034080, 0.4827585828, -1.379309963]], [0.82, [0.7931034122, 0.4827585857, -1.379310004]], [0.83, [0.7931034161, 0.4827585904, -1.379310040]], [0.84, [0.7931034195, 0.4827585928, -1.379310072]], [0.85, [0.7931034226, 0.4827585962, -1.379310101]], [0.86, [0.7931034253, 0.4827585985, -1.379310127]], [0.87, [0.7931034277, 0.4827586011, -1.379310150]], [0.88, [0.7931034299, 0.4827586031, -1.379310171]], [0.89, [0.7931034319, 0.4827586051, -1.379310189]], [0.90, [0.7931034336, 0.4827586064, -1.379310206]], [0.91, [0.7931034352, 0.4827586084, -1.379310221]], [0.92,

[0.7931034366, 0.4827586094, -1.379310234]], [0.93, [0.7931034378, 0.4827586107, -1.379310246]], [0.94, [0.7931034389, 0.4827586118, -1.379310256]], [0.95, [0.7931034399, 0.4827586126, -1.379310265]], [0.96, [0.7931034408, 0.4827586134, -1.379310273]], [0.97, [0.7931034416, 0.4827586141, -1.379310281]], [0.98, [0.7931034423, 0.4827586149, -1.379310288]], [0.99, [0.7931034429, 0.4827586156, -1.379310294]], [1.00, [0.7931034435, 0.4827586161, -1.379310299]], [1.01, [0.7931034440, 0.4827586164, -1.379310304]], [1.02, [0.7931034445, 0.4827586171, -1.379310308]], [1.03, [0.7931034449, 0.4827586171, -1.379310312]], [1.04, [0.7931034453, 0.4827586178, -1.379310315]], [1.05, [0.7931034456, 0.4827586176, -1.379310318]], [1.06, [0.7931034459, 0.4827586183, -1.379310321]], [1.07, [0.7931034461, 0.4827586183, -1.379310324]], [1.08, [0.7931034463, 0.4827586190, -1.379310326]], [1.09, [0.7931034465, 0.4827586188, -1.379310328]], [1.10, [0.7931034467, 0.4827586193, -1.379310330]], [1.11, [0.7931034469, 0.4827586193, -1.379310332]], [1.12, [0.7931034471, 0.4827586196, -1.379310333]], [1.13, [0.7931034472, 0.4827586194, -1.379310334]], [1.14, [0.7931034473, 0.4827586197, -1.379310335]], [1.15, [0.7931034474, 0.4827586197, -1.379310336]], [1.16, [0.7931034475, 0.4827586199, -1.379310337]], [1.17, [0.7931034476, 0.4827586199, -1.379310338]], [1.18, [0.7931034477, 0.4827586201, -1.379310339]], [1.19, [0.7931034478, 0.4827586201, -1.379310340]], [1.20, [0.7931034479, 0.4827586203, -1.379310340]], [1.21, [0.7931034479, 0.4827586200, -1.379310341]], [1.22, [0.7931034480, 0.4827586205, -1.379310341]], [1.23, [0.7931034480, 0.4827586200, -1.379310342]], [1.24, [0.7931034481, 0.4827586207, -1.379310342]], [1.25, [0.7931034481, 0.4827586200, -1.379310342]], [1.26, [0.7931034481, 0.4827586205, -1.379310342]], [1.27, [0.7931034481, 0.4827586202, -1.379310342]], [1.28, [0.7931034481, 0.4827586204, -1.379310342]], [1.29, [0.7931034481, 0.4827586202, -1.379310342]], [1.30, [0.7931034481, 0.4827586204, -1.379310342]], [1.31, [0.7931034481, 0.4827586202, -1.379310342]], [1.32, [0.7931034481, 0.4827586204, -1.379310342]], [1.33, [0.7931034481, 0.4827586202, -1.379310342]], [1.34, [0.7931034481, 0.4827586204, -1.379310342]], [1.35, [0.7931034481, 0.4827586202, -1.379310342]], [1.36, [0.7931034481, 0.4827586204, -1.379310342]], [1.37, [0.7931034481, 0.4827586202, -1.379310342]], [1.38, [0.7931034481, 0.4827586204, -1.379310342]], [1.39, [0.7931034481, 0.4827586202, -1.379310342]], [1.40, [0.7931034481, 0.4827586204, -1.379310342]], [1.41, [0.7931034481, 0.4827586202, -1.379310342]], [1.42, [0.7931034481, 0.4827586204, -1.379310342]], [1.43, [0.7931034481, 0.4827586202, -1.379310342]], [1.44, [0.7931034481, 0.4827586204, -1.379310342]], [1.45, [0.7931034481, 0.4827586202, -1.379310342]], [1.46, [0.7931034481, 0.4827586204, -1.379310342]], [1.47, [0.7931034481, 0.4827586202, -1.379310342]], [1.48, [0.7931034481, 0.4827586204, -1.379310342]], [1.49,

$$\begin{aligned}
& \triangleright \text{Dis3}\left(G, x, y, z, \left[\frac{2}{11} + 0.01, 1.01, -\frac{10}{11} + 0.01\right], 0.01, 10\right); \\
& \left[[0.01, [0.1918181818, 1.01, -0.8990909091]], [0.02, [0.1866820000, 0.9807300000, \right. \\
& \quad \left. -0.9010563636]], [0.03, [0.1883837110, 0.9978827140, -0.9002795281]], [0.04, \right. \\
& \quad \left. [0.1862449094, 0.9895896736, -0.9011844116]], [0.05, [0.1862139354, 0.9954828119, \right. \\
& \quad \left. -0.9011669369]], [0.06, [0.1849891981, 0.9935256147, -0.9016386946]], [0.07, \right. \\
& \quad \left. [0.1844028603, 0.9959527131, -0.9017982484]], [0.08, [0.1834268587, 0.9959581699, \right. \\
& \quad \left. -0.9020899709]], [0.09, [0.1826263090, 0.9973416399, -0.9022635039]], [0.10, \right. \\
& \quad \left. [0.1816759840, 0.9979909739, -0.9024584372]], [0.11, [0.1807475454, 0.9990960652, \right. \\
& \quad \left. -0.9025955783]], [0.12, [0.1797335340, 1.000001389, -0.9027184613]], [0.13, \right. \\
& \quad \left. [0.1786819313, 1.001085587, -0.9028013238]], [0.14, [0.1775522845, 1.002148526, \right. \\
& \quad \left. -0.9028571220]], [0.15, [0.1763525342, 1.003316124, -0.9028766363]], [0.16, \right. \\
& \quad \left. [0.1750618876, 1.004532316, -0.9028627891]], [0.17, [0.1736740628, 1.005844920, \right. \\
& \quad \left. -0.9028112224]], [0.18, [0.1721726796, 1.007244864, -0.9027212398]], [0.19, \right. \\
& \quad \left. [0.1705449050, 1.008757049, -0.9025895616]], [0.20, [0.1687734470, 1.010389304, \right. \\
& \quad \left. -0.9024138114]], [0.21, [0.1668407566, 1.012161532, -0.9021904735]], [0.22, \right. \\
& \quad \left. [0.1647262600, 1.014089536, -0.9019159833]], [0.23, [0.1624074878, 1.016194580, \right. \\
& \quad \left. -0.9015860236]], [0.24, [0.1598589143, 1.018498396, -0.9011958324]], [0.25, \right. \\
& \quad \left. [0.1570520170, 1.021026544, -0.9007399178]], [0.26, [0.1539545349, 1.023807103, \right. \\
& \quad \left. -0.9002120948]], [0.27, [0.1505300594, 1.026872125, -0.8996053174]], [0.28, \right. \\
& \quad \left. [0.1467372827, 1.030257645, -0.8989116032]], [0.29, [0.1425292550, 1.034004665, \right. \\
& \quad \left. -0.8981218751]], [0.30, [0.1378524077, 1.038159773, -0.8972258137]], [0.31, \right. \\
& \quad \left. [0.1326454268, 1.042776208, -0.8962116588]], [0.32, [0.1268378578, 1.047914958, \right. \\
& \quad \left. -0.8950659849]], [0.33, [0.1203484202, 1.053646199, -0.8937734221]], [0.34, \right. \\
& \quad \left. [0.1130829275, 1.060050997, -0.8923163208]], [0.35, [0.1049317188, 1.067223443, \right. \\
& \quad \left. -0.8906743371]], [0.36, [0.09576644967, 1.075273260, -0.8888239215]], [0.37, \right. \\
& \quad \left. [0.08543606277, 1.084329113, -0.8867376746]], [0.38, [0.07376166834, 1.094542730, \right. \\
& \quad \left. -0.8843835349]], [0.39, [0.06052999296, 1.106094190, -0.8817237328]], [0.40, \right. \\
& \quad \left. [0.04548489690, 1.119198681, -0.8787134346]], [0.41, [0.02831627971, 1.134115300, \right. \\
& \quad \left. -0.8752989514]], [0.42, [0.00864538751, 1.151158579, -0.8714153424]], [0.43, \right. \\
& \quad \left. [-0.01399489172, 1.170713822, -0.8669831483]], [0.44, [-0.04018683825, \right. \\
& \quad \left. 1.193257736, -0.8619038603]], [0.45, [-0.07066494484, 1.219386635, \right. \\
& \quad \left. -0.8560535058]], [0.46, [-0.1063679932, 1.249855575, -0.8492733716]], [0.47, \right.
\end{aligned}$$

(25)

[−0.1485136643, 1.285633666, −0.8413562598]], [0.48, [−0.1987077368, 1.327983771, −0.8320255941]], [0.49, [−0.2591077625, 1.378579923, −0.8209027254]], [0.50, [−0.3326751169, 1.439684641, −0.8074541185]], [0.51, [−0.4235752730, 1.514424367, −0.7909029374]], [0.52, [−0.5378363688, 1.607231262, −0.7700749464]], [0.53, [−0.6844782106, 1.724578667, −0.7431172538]], [0.54, [−0.8775435144, 1.876259204, −0.7069567994]], [0.55, [−1.139968487, 2.077721057, −0.6561899379]], [0.56, [−1.511488437, 2.354601423, −0.5806262753]], [0.57, [−2.066224107, 2.752172465, −0.4593253154]], [0.58, [−2.956236005, 3.356764263, −0.2443085421]], [0.59, [−4.535426142, 4.349375248, 0.1913262259]], [0.60, [−7.783614102, 6.153811137, 1.257209727]], [0.61, [−16.18335426, 9.843112051, 4.727915508]], [0.62, [−47.77951056, 16.55491643, 22.92944436]], [0.63, [−267.1200756, −94.98602567, 256.0427686]], [0.64, [−346.2915238, −32467.84816, 20111.48931]], [0.65, [5.073629948 × 10⁷, −3.302130609 × 10⁸, 1.418158847 × 10⁸]], [0.66, [2.696774997 × 10¹⁵, −2.056273837 × 10¹⁶, 1.347340381 × 10¹⁶]], [0.67, [5.812419986 × 10³⁰, −1.379407265 × 10³², 1.536682082 × 10³¹]], [0.68, [2.026441539 × 10⁶³, 1.475490133 × 10⁶³, 8.770826249 × 10⁶³]], [0.69, [1.917721051 × 10¹²⁷, 4.730181465 × 10¹²⁷, 7.717660281 × 10¹²⁷]], [0.70, [2.793494828 × 10²⁵⁵, 7.092978732 × 10²⁵⁵, 1.128649789 × 10²⁵⁶]], [0.71, [6.066849333 × 10⁵¹¹, 1.541511349 × 10⁵¹², 2.454378141 × 10⁵¹²]], [0.72, [2.865710577 × 10¹⁰²⁴, 7.283618294 × 10¹⁰²⁴, 1.159626388 × 10¹⁰²⁵]], [0.73, [6.396520407 × 10²⁰⁴⁹, 1.625858831 × 10²⁰⁵⁰, 2.588519546 × 10²⁰⁵⁰]], [0.74, [3.187133078 × 10⁴¹⁰⁰, 8.101103747 × 10⁴¹⁰⁰, 1.289769979 × 10⁴¹⁰¹]], [0.75, [7.912610912 × 10⁸²⁰¹, 2.011244192 × 10⁸²⁰², 3.202084333 × 10⁸²⁰²]], [0.76, [4.877085905 × 10¹⁶⁴⁰⁴, 1.239668594 × 10¹⁶⁴⁰⁵, 1.973665454 × 10¹⁶⁴⁰⁵]], [0.77, [1.852856865 × 10³²⁸¹⁰, 4.709633423 × 10³²⁸¹⁰, 7.498165838 × 10³²⁸¹⁰]], [0.78, [2.674267573 × 10⁶⁵⁶²¹, 6.797513835 × 10⁶⁵⁶²¹, 1.082226180 × 10⁶⁵⁶²²]], [0.79, [5.570970305 × 10¹³¹²⁴³, 1.416041845 × 10¹³¹²⁴⁴, 2.254467726 × 10¹³¹²⁴⁴]], [0.80, [2.417590925 × 10²⁶²⁴⁸⁸, 6.145087346 × 10²⁶²⁴⁸⁸, 9.783539340 × 10²⁶²⁴⁸⁸]], [0.81, [4.552885860 × 10⁵²⁴⁹⁷⁷, 1.157262836 × 10⁵²⁴⁹⁷⁸, 1.842467951 × 10⁵²⁴⁹⁷⁸]], [0.82, [1.614710448 × 10¹⁰⁴⁹⁹⁵⁶, 4.104307577 × 10¹⁰⁴⁹⁹⁵⁶, 6.534431877 × 10¹⁰⁴⁹⁹⁵⁶]], [0.83, [2.031002419 × 10²⁰⁹⁹⁹¹³, 5.162447934 × 10²⁰⁹⁹⁹¹³, 8.219087802 × 10²⁰⁹⁹⁹¹³]], [0.84, [3.213231465 × 10⁴¹⁹⁹⁸²⁷, 8.167464492 × 10⁴¹⁹⁹⁸²⁷, 1.300334815 × 10⁴¹⁹⁹⁸²⁸]], [0.85, [8.042760792 × 10⁸³⁹⁹⁶⁵⁵,

$2.044327149 \times 10^{8399656}$, $3.254755214 \times 10^{8399656}$], [0.86, [$5.038850045 \times 10^{16799312}$,
 $1.280786314 \times 10^{16799313}$, $2.039128588 \times 10^{16799313}$]], [0.87, [$1.977807403 \times 10^{33598626}$,
 $5.027235638 \times 10^{33598626}$, $8.003817503 \times 10^{33598626}$]], [0.88, [$3.047116973 \times 10^{67197253}$,
 $7.745230915 \times 10^{67197253}$, $1.233111380 \times 10^{67197254}$]], [0.89, [$7.232682195 \times 10^{134394507}$,
 $1.838419537 \times 10^{134394508}$, $2.926931524 \times 10^{134394508}$]], [0.90, [4.074927584
 $\times 10^{268789016}$, $1.035774320 \times 10^{268789017}$, $1.649047156 \times 10^{268789017}$]], [0.91,
[$1.293483583 \times 10^{537578034}$, $3.287805854 \times 10^{537578034}$, $5.234486693 \times 10^{537578034}$]],
[0.92, [$1.303295726 \times 10^{1075156069}$, $3.312746587 \times 10^{1075156069}$, 5.274194611
 $\times 10^{1075156069}$]], [0.93, [$1.323143880 \times 10^{2150312139}$, $3.363197073 \times 10^{2150312139}$,
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 $\times 10^{4300624279}$, $5.518848269 \times 10^{4300624279}$]], [0.95, [$1.448744097 \times 10^{8601248559}$,
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> #5 (ii)

$G := \text{RandNice}([x, y, z], 10);$

$\text{EquPts}(G, [x, y, z]);$

$\text{StEquPts}(G, [x, y, z]);$

$G := [(4 - 9x - 7y - 8z)(9 - x - 10y - 2z), (4 - 7x - 8y - z)(6 - 4x - y - 7z), (2 - 9x - 5y - 9z)(9 - 4x - 3y - 4z)]$

$\left\{ \left[-\frac{413}{5}, \frac{343}{5}, \frac{167}{5} \right], \left[-\frac{289}{133}, \frac{191}{266}, \frac{531}{266} \right], \left[-\frac{277}{5}, \frac{207}{5}, \frac{133}{5} \right], \left[-\frac{271}{547}, \frac{496}{547}, \frac{117}{547} \right], \left[-\frac{160}{43}, \frac{100}{43}, \frac{114}{43} \right], \left[-\frac{71}{233}, \frac{115}{233}, \frac{509}{233} \right], \left[-\frac{62}{71}, \frac{86}{71}, \frac{30}{71} \right], \left[\frac{15}{7}, \frac{93}{119}, -\frac{57}{119} \right] \right\}$

$\left\{ \left[-\frac{62}{71}, \frac{86}{71}, \frac{30}{71} \right] \right\}$

(26)

> $\text{Dis3}\left(G, x, y, z, \left[-\frac{62}{71} + 0.01, \frac{86}{71} + 0.01, \frac{30}{71} + 0.01 \right], 0.01, 10\right);$

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(27)

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$$\begin{aligned}
 & \triangleright \text{Dis3}\left(G, x, y, z, \left[\frac{15}{7} + 0.01, \frac{93}{119} + 0.01, -\frac{57}{119} + 0.01\right], 0.01, 10\right); \\
 & [[0.01, [2.152857143, 0.7915126050, -0.4689915966]], [0.02, [2.175170824, \\
 & 0.8118323363, -0.4501680082]], [0.03, [2.244594771, 0.8742381613, \\
 & -0.3911716062]], [0.04, [2.475783720, 1.078342305, -0.1937153247]], [0.05, \\
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 & 6.150220180]], [0.07, [155.8808103, 110.5695380, 138.0335568]], [0.08, [50252.31185, \\
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 & \times 10^9]], [0.10, [6.634910901 \times 10^{19}, 4.753491935 \times 10^{19}, 6.444586210 \times 10^{19}]], [0.11, \\
 & [9.693065758 \times 10^{39}, 6.946527322 \times 10^{39}, 9.419716442 \times 10^{39}]], [0.12, [2.069918880 \\
 & \times 10^{80}, 1.483286914 \times 10^{80}, 2.011462839 \times 10^{80}]], [0.13, [9.438329938 \times 10^{160}, \\
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 & \times 10^{322}, 1.907082898 \times 10^{322}]], [0.15, [8.484049529 \times 10^{644}, 6.079753105 \times 10^{644}, \\
 & 8.244690015 \times 10^{644}]], [0.16, [1.585666941 \times 10^{1290}, 1.136302914 \times 10^{1290}, 1.540928762 \\
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 \end{aligned}
 \tag{28}$$

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 $\times 10^{726511243797935229}]]$, $[0.66, [4.257171476 \times 10^{1453022487595870458}, 3.050727732$
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 $\times 10^{2906044975191740917}, 2.861076963 \times 10^{2906044975191740917}, 3.879877113$
 $\times 10^{2906044975191740917}]]$, $[0.68, [3.511554518 \times 10^{5812089950383481835}, 2.516411850$
 $\times 10^{5812089950383481835}, 3.412480290 \times 10^{5812089950383481835}]]$, $[0.69, [\text{Float}(\infty),$
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