```
> # Max Mekhanikov - HW 19

  # Question 1
>
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:

 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:

 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:


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:
> SIRSdemo(1000, 200, 3, 1, 0.01, 10)
```

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)**

> $SIRSdemo(1000, 200, 3, 2, 0.01, 10)$

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*nu/N to 4*nu/N*

Recall that the epidemic will persist if beta exceeds nu/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)**

```
> SIRSdemo(1000, 200, 7, 3, 0.01, 10)
```

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=*, 3, *and gamma=*, 7

*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, $\frac{3}{1000}$

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

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

beta 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]]]

beta 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]]]

beta 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]]]

beta 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]]]

beta 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]]] **(3)**

```
>
# Question 2
```

```
> IsStable := proc(M) local Ei1, i :
Ei1 := Eigenvalues(evalf(Matrix(M))) :
evalb(max(seq(coeff(Ei1[i], I, 0), i = 1 ..nops(M))) < 0):
end:

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:
```

```
EquPts := proc(F, var) local sol, i1 :
if nops(F) ≠ nops(var) then
 RETURN(FAIL) :
fi:

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

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

 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:


 f1 := RandNice([x, y], 8)
```

$$f1 := [(1-3x-5y)(5-2x-2y), (2-3x-2y)(8-4x-7y)] \quad (4)$$

```
> f2 := RandNice([x, y], 8)
```

$$f2 := [(5-3x-8y)(1-8x-5y), (2-3x-2y)(2-4x-8y)] \quad (5)$$

```
> f3 := RandNice([x, y], 8)
```

$$f3 := [(3-3x-y)(2-5x-4y), (5-6x-2y)(3-7x-8y)] \quad (6)$$

```
> EquPts(f1, [x, y])
```

$$\left\{\left[1, \frac{1}{7}\right], \left[-\frac{19}{4}, \frac{17}{4}\right], \left[-\frac{1}{26}, \frac{37}{26}\right], \left[\frac{2}{5}, \frac{2}{5}\right]\right\} \quad (7)$$

```
>
```

$L1 := Dis2\left(f1, x, y, \left[1, \frac{1}{7}\right] + [0.1, 0.1], 0.01, 10\right)$

$L1 := [[0.01, [1.1, 0.2428571429]], [0.02, [1.153142857, 0.2180000000]], [0.03, [1.214189274, 0.1938513690]], [0.04, [1.286739448, 0.1699809021]], [0.05, [1.376313379, 0.1459352535]], [0.06, [1.491870430, 0.1212989155]], [0.07, [1.649006015, 0.09589250101]], [0.08, [1.877371535, 0.07042877780]], [0.09, [2.240250377, 0.04884309203]], [0.10, [2.895910203, 0.04777014036]], [0.11, [4.342690740, 0.1445253964]], [0.12, [8.830446821, 0.8222787195]], [0.13, [35.29828498, 7.489411812]], [0.14, [627.2690837, 217.8932591]], [0.15, [235295.6479, 101093.9026]], [0.16, [3.674730419 \times 10^{10}, 1.712301338 \times 10^{10}]], [0.17, [9.369027533 \times 10^{20}, 4.506727979 \times 10^{20}]], [0.18, [6.201090375 \times 10^{41}, 3.020930697 \times 10^{41}]], [0.19, [2.736435845 \times 10^{83}, 1.339882789 \times 10^{83}]], [0.20, [5.344400540 \times 10^{166}, 2.622218548 \times 10^{166}]], [0.21, [2.040996150 \times 10^{333}, 1.002235312 \times 10^{333}]], [0.22, [2.978080114 \times 10^{666}, 1.462877371 \times 10^{666}]], [0.23, [6.341740796 \times 10^{1332}, 3.115573839 \times 10^{1332}]], [0.24, [2.875983828 \times 10^{2665}, 1.412990921 \times 10^{2665}]], [0.25, [5.915016130 \times 10^{5330}, 2.906151692 \times 10^{5330}]], [0.26, [2.502075409 \times 10^{10661}, 1.229324489 \times 10^{10661}]], [0.27, [4.477045646 \times 10^{21322}, 2.199678393 \times 10^{21322}]], [0.28, [1.433423982 \times 10^{42645}, 7.042760961 \times 10^{42644}]], [0.29, [1.469404318 \times 10^{85290}, 7.219545235 \times 10^{85289}]], [0.30, [1.544097598 \times 10^{170580}, 7.586533453 \times 10^{170579}]], [0.31, [1.705067895 \times 10^{341160}, 8.377421106 \times 10^{341159}]], [0.32, [2.079100864 \times 10^{682320}, 1.021513817 \times 10^{682320}]], [0.33, [3.091315508 \times 10^{1364640}, 1.518839997 \times 10^{1364640}]], [0.34, [6.834061515 \times 10^{2729280}, 3.357743978 \times 10^{2729280}]], [0.35, [3.340027074 \times 10^{5458561}, 1.641038173 \times 10^{5458561}]], [0.36, [7.977966253 \times 10^{10917122}, 3.919772769 \times 10^{10917122}]], [0.37, [4.551731235 \times 10^{21834245}, 2.236378494 \times 10^{21834245}]], [0.38, [1.481649373 \times 10^{43668491}, 7.279711002 \times 10^{43668490}]], [0.39, [1.569940178 \times 10^{87336982}, 7.713505634 \times 10^{87336981}]], [0.40, [1.762618926 \times 10^{174673964}, 8.660184136 \times 10^{174673963}]], [0.41, [2.221821059 \times 10^{349347928}, 1.091635816 \times 10^{349347928}]], [0.42, [3.530289970 \times 10^{698695856}, 1.734519058 \times 10^{698695856}]], [0.43, [8.912775731 \times 10^{1397391712}, 4.379067866 \times 10^{1397391712}]], [0.44, [5.680913524 \times 10^{2794783425}, 2.791173772 \times 10^{2794783425}]], [0.45, [2.307961595 \times 10^{5589566851}, 1.133958798 \times 10^{5589566851}]], [0.46, [3.809336838 \times 10^{11179133702}, 1.871621708 \times 10^{11179133702}]], [0.47, [1.037745776 \times 10^{22358267405}, 5.098702485 \times 10^{22358267404}]], [0.48, [7.701479602 \times 10^{44716534809}, 3.783928020 \times 10^{44716534809}]], [0.49, [4.241705964 \times 10^{89433069619}, 2.084055388$ **(8)**

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Float(∞)]], [10.01, [Float(∞), Float(∞)]]]

> $L2 := Dis2\left(f1, x, y, \left[-\frac{19}{4}, \frac{17}{4}\right] + [0.1, 0.1], 0.01, 10\right)$

$$
\begin{aligned}
&L2 := [[0.01, [-4.650000000, 4.350000000]], [0.02, [-4.932000000, 4.450000000]], [0.03, \qquad \textbf{(9)}\\
&[-5.055352600, 4.506087160]], [0.04, [-5.124125141, 4.551184594]], [0.05,\\
&[-5.186430169, 4.599074022]], [0.06, [-5.255712864, 4.654169311]], [0.07,\\
&[-5.336361871, 4.718704611]], [0.08, [-5.431317787, 4.794809160]], [0.09,\\
&[-5.543812187, 4.885055460]], [0.10, [-5.677905551, 4.992731634]], [0.11,\\
&[-5.838884670, 5.122136761]], [0.12, [-6.033780389, 5.279002071]], [0.13,\\
&[-6.272146346, 5.471133593]], [0.14, [-6.567286920, 5.709429258]], [0.15,\\
&[-6.938268509, 6.009549155]], [0.16, [-7.413356178, 6.394776868]], [0.17,\\
&[-8.036184826, 6.901171673]], [0.18, [-8.877518402, 7.587415072]], [0.19,\\
&[-10.05933604, 8.555043235]], [0.20, [-11.80879747, 9.993933996]], [0.21,\\
&[-14.59378717, 12.29698305]], [0.22, [-19.51853081, 16.39617867]], [0.23,\\
&[-29.74220033, 24.97308617]], [0.24, [-57.33553109, 48.33807610]], [0.25,\\
&[-176.2794365, 150.1114350]], [0.26, [-1463.118398, 1262.230053]], [0.27,\\
&[-99255.66453, 86322.31322]], [0.28, [-4.706695062 \times 10^{8}, 4.102786726 \times 10^{8}]], [0.29,\\
&[-1.070319476 \times 10^{16}, 9.334649370 \times 10^{15}]], [0.30, [-5.548840058 \times 10^{30}, 4.839936347\\
&\times 10^{30}]], [0.31, [-1.492245213 \times 10^{60}, 1.301638921 \times 10^{60}]], [0.32, [-1.079393108\\
&\times 10^{119}, 9.415277644 \times 10^{118}]], [0.33, [-5.647732104 \times 10^{236}, 4.926385049 \times 10^{236}]],\\
&[0.34, [-1.546204020 \times 10^{472}, 1.348718311 \times 10^{472}]], [0.35, [-1.158919192 \times 10^{943},\\
&1.010898745 \times 10^{943}]], [0.36, [-6.510676231 \times 10^{1884}, 5.679114342 \times 10^{1884}]], [0.37,\\
&[-2.054811760 \times 10^{3768}, 1.792365434 \times 10^{3768}]], [0.38, [-2.046745988 \times 10^{7535},\\
&1.785329845 \times 10^{7535}]], [0.39, [-2.030709305 \times 10^{15069}, 1.771341410 \times 10^{15069}]], [0.40,\\
&[-1.999011895 \times 10^{30137}, 1.743692480 \times 10^{30137}]], [0.41, [-1.937093632 \times 10^{60273},\\
&1.689682596 \times 10^{60273}]], [0.42, [-1.818951372 \times 10^{120545}, 1.586629799 \times 10^{120545}]],\\
&[0.43, [-1.603843697 \times 10^{241089}, 1.398996281 \times 10^{241089}]], [0.44, [-1.246935388\\
&\times 10^{482177}, 1.087673301 \times 10^{482177}]], [0.45, [-7.537160526 \times 10^{964352}, 6.574493231\\
&\times 10^{964352}]], [0.46, [-2.753819011 \times 10^{1928704}, 2.402093519 \times 10^{1928704}]], [0.47,\\
&[-3.676128219 \times 10^{3857407}, 3.206602817 \times 10^{3857407}]], [0.48, [-6.550903047\\
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&\times 10^{15429626}]], [0.50, [-2.097800951 \times 10^{30859251}, 1.829863929 \times 10^{30859251}]], [0.51,\\
&[-2.133282750 \times 10^{61718501}, 1.860813896 \times 10^{61718501}]], [0.52, [-2.206056917\\
&\times 10^{123437001}, 1.924293139 \times 10^{123437001}]], [0.53, [-2.359137714 \times 10^{246874001},\\
&2.057822022 \times 10^{246874001}]], [0.54, [-2.697903723 \times 10^{493748001}, 2.353319890
\end{aligned}
$$

$\times 10^{493748001}]], [0.55, [-3.528358942 \times 10^{987496001}, 3.077707042 \times 10^{987496001}]], [0.56, [-6.034834812 \times 10^{1974992001}, 5.264048775 \times 10^{1974992001}]], [0.57, [-1.765430551 \times 10^{3949984002}, 1.539944807 \times 10^{3949984002}]], [0.58, [-1.510849275 \times 10^{7899968003}, 1.317879365 \times 10^{7899968003}]], [0.59, [-1.106527327 \times 10^{15799936005}, 9.651985517 \times 10^{15799936004}]], [0.60, [-5.935320183 \times 10^{31599872008}, 5.177244430 \times 10^{31599872008}]], [0.61, [-1.707686585 \times 10^{63199744016}, 1.489576062 \times 10^{63199744016}]], [0.62, [-1.413631444 \times 10^{126399488031}, 1.233078470 \times 10^{126399488031}]], [0.63, [-9.687066021 \times 10^{252798976060}, 8.449806764 \times 10^{252798976060}]], [0.64, [-4.548878989 \times 10^{505597952120}, 3.967883397 \times 10^{505597952120}]], [0.65, [-1.003063970 \times 10^{1011195904240}, 8.749498226 \times 10^{1011195904239}]], [0.66, [-4.877273615 \times 10^{2022391808478}, 4.254334539 \times 10^{2022391808478}]], [0.67, [-1.153118931 \times 10^{4044783616956}, 1.005839349 \times 10^{4044783616956}]], [0.68, [-6.445670140 \times 10^{8089567233910}, 5.622411066 \times 10^{8089567233910}]], [0.69, [-2.013984013 \times 10^{16179134467820}, 1.756752324 \times 10^{16179134467820}]], [0.70, [-1.966219071 \times 10^{32358268935639}, 1.715088049 \times 10^{32358268935639}]], [0.71, [-1.874060756 \times 10^{64716537871277}, 1.634700457 \times 10^{64716537871277}]], [0.72, [-1.702500299 \times 10^{129433075742553}, 1.485052183 \times 10^{129433075742553}]], [0.73, [-1.405058017 \times 10^{258866151485105}, 1.225600065 \times 10^{258866151485105}]], [0.74, [-9.569921610 \times 10^{517732302970208}, 8.347624366 \times 10^{517732302970208}]], [0.75, [-4.439526215 \times 10^{1035464605940416}, 3.872497468 \times 10^{1035464605940416}]], [0.76, [-9.554173277 \times 10^{2070929211880831}, 8.333887467 \times 10^{2070929211880831}]], [0.77, [-4.424926840 \times 10^{4141858423761662}, 3.859762767 \times 10^{4141858423761662}]], [0.78, [-9.491438846 \times 10^{8283716847523323}, 8.279165645 \times 10^{8283716847523323}]], [0.79, [-4.367007855 \times 10^{16567433695046646}, 3.809241354 \times 10^{16567433695046646}]], [0.80, [-9.244593271 \times 10^{33134867390093291}, 8.063847889 \times 10^{33134867390093291}]], [0.81, [-4.142814470 \times 10^{66269734780186582}, 3.613682583 \times 10^{66269734780186582}]], [0.82, [-8.319760697 \times 10^{132539469560373163}, 7.257137521 \times 10^{132539469560373163}]], [0.83, [-3.355378647 \times 10^{265078939120746326}, 2.926820267 \times 10^{265078939120746326}]], [0.84, [-5.457615486 \times 10^{530157878241492651}, 4.760553530 \times 10^{530157878241492651}]], [0.85, [-1.443862168 \times 10^{1060315756482985302}, 1.259448040 \times 10^{1060315756482985302}]], [0.86, [-1.010581489 \times 10^{2120631512965970603}, 8.815071842 \times 10^{2120631512965970602}]], [0.87, [-4.950653597 \times 10^{4241263025931941204}, 4.318342226 \times 10^{4241263025931941204}]], [0.88, [-1.188077969$

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> $L3 := Dis2\left(f1, x, y, \left[-\frac{1}{26}, \frac{37}{26}\right] + [0.1, 0.1], 0.01, 10\right)$

$L3 :=$ [[0.01, [0.06153846154, 1.523076923]], [0.02, [0.1112307692, 1.577846154]], [0.03, [0.1959276694, 1.668080944]], [0.04, [0.3540615613, 1.827433119]], [0.05, [0.6931927405, 2.142704022]], [0.06, [1.600694362, 2.900354756]], [0.07, [5.148662806, 5.497030396]], [0.08, [33.40506280, 23.43572453]], [0.09, [1009.094820, 571.0177239]], [0.10, [793764.2705, 413046.2104]], [0.11, [$4.661804660 \times 10^{11}$, $2.344480074 \times 10^{11}$]], [0.12, [$1.575551638 \times 10^{23}$, $7.814346357 \times 10^{22}$]], [0.13, [$1.785023454 \times 10^{46}$, $8.803653211 \times 10^{45}$]], [0.14, [$2.283709664 \times 10^{92}$, $1.123763059 \times 10^{92}$]], [0.15, [$3.733025634 \times 10^{184}$, $1.835260360 \times 10^{184}$]], [0.16, [$9.969423399 \times 10^{368}$, $4.899443069 \times 10^{368}$]], [0.17, [$7.108780324 \times 10^{737}$, $3.493070015 \times 10^{737}$]], [0.18, [$3.614162733 \times 10^{1475}$, $1.775799480 \times 10^{1475}$]], [0.19, [$9.341525799 \times 10^{2950}$, $4.589798020 \times 10^{2950}$]], [0.20, [$6.240680676 \times 10^{5901}$, $3.066221342 \times 10^{5901}$]], [0.21, [$2.785209045 \times 10^{11803}$, $1.368445922 \times 10^{11803}$]], [0.22, [$5.547642683 \times 10^{23606}$, $2.725697397 \times 10^{23606}$]], [0.23, [$2.200946323 \times 10^{47213}$, $1.081380002 \times 10^{47213}$]], [0.24, [$3.464265997 \times 10^{94426}$, $1.702080134 \times 10^{94426}$]], [0.25, [$8.582518070 \times 10^{188852}$, $4.216804374 \times 10^{188852}$]], [0.26, [$5.267707980 \times 10^{377705}$, $2.588155708 \times 10^{377705}$]], [0.27, [$1.984429210 \times 10^{755411}$, $9.749993204 \times 10^{755410}$]], [0.28, [$2.816199686 \times 10^{1510822}$, $1.383668789 \times 10^{1510822}$]], [0.29, [$5.671776561 \times 10^{3021644}$, $2.786684560 \times 10^{3021644}$]], [0.30, [$2.300543494 \times 10^{6043289}$, $1.130314101 \times 10^{6043289}$]], [0.31, [$3.784888743 \times 10^{12086578}$, $1.859609753 \times 10^{12086578}$]], [0.32, [$1.024468140 \times 10^{24173157}$, $5.033466172 \times 10^{24173156}$]], [0.33, [$7.505664276 \times 10^{48346313}$, $3.687719094 \times 10^{48346313}$]], [0.34, [$4.028751596 \times 10^{96692627}$, $1.979425623 \times 10^{96692627}$]], [0.35, [$1.160735326 \times 10^{193385255}$, $5.702980666 \times 10^{193385254}$]], [0.36, [$9.635153216 \times 10^{386770509}$, $4.733989848 \times 10^{386770509}$]], [0.37, [$6.639103990 \times 10^{773541019}$, $3.261956524 \times 10^{773541019}$]], [0.38, [$3.152181119 \times 10^{1547082039}$, $1.548744798 \times 10^{1547082039}$]], [0.39, [$7.105825658 \times 10^{3094164078}$, $3.491268461 \times 10^{3094164078}$]], [0.40, [$3.610948685 \times 10^{6188328157}$, $1.774148686 \times 10^{6188328157}$]], [0.41, [$9.324699703 \times 10^{12376656314}$, $4.581456336 \times 10^{12376656314}$]], [0.42, [$6.218160535 \times 10^{24753312629}$, $3.055136560 \times 10^{24753312629}$]], [0.43, [$2.765133356 \times 10^{49506625259}$, $1.358578628 \times 10^{49506625259}$]], [0.44, [$5.467948095 \times 10^{99013250518}$, $2.686538573 \times 10^{99013250518}$]], [0.45, [2.138163875 **(10)**

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[10.01, [Float(∞), Float(∞)]]]

> $L4 := Dis2\left(f1, x, y, \left[\frac{2}{5}, \frac{2}{5}\right] + [0.1, 0.1], 0.01, 10\right)$

$L4 :=$ [[0.01, [0.5000000000, 0.5000000000]], [0.02, [0.5000000000, 0.4700000000]], [0.03, [0.4980890000, 0.4451150000]], [0.04, [0.4948525010, 0.4251036745]], [0.05, [0.4907863820, 0.4095004224]], [0.06, [0.4862740291, 0.3977075511]], [0.07, [0.4815891868, 0.3890826309]], [0.08, [0.4769135553, 0.3830056454]], [0.09, [0.4723592148, 0.3789209391]], [0.10, [0.4679895760, 0.3763566651]], [0.11, [0.4638361069, 0.3749279654]], [0.12, [0.4599104209, 0.3743303968]], [0.13, [0.4562124256, 0.3743287459]], [0.14, [0.4527355348, 0.3747446273]], [0.15, [0.4494698636, 0.3754447726]], [0.16, [0.4464041123, 0.3763308807]], [0.17, [0.4435266320, 0.3773312739]], [0.18, [0.4408259970, 0.3783942754]], [0.19, [0.4382912874, 0.3794830785]], [0.20, [0.4359122082, 0.3805718403]], [0.21, [0.4336791188, 0.3816427446]], [0.22, [0.4315830168, 0.3826838144]], [0.23, [0.4296155007, 0.3836872942]], [0.24, [0.4277687255, 0.3846484612]], [0.25, [0.4260353570, 0.3855647541]], [0.26, [0.4244085297, 0.3864351385]], [0.27, [0.4228818081, 0.3872596456]], [0.28, [0.4214491532, 0.3880390385]], [0.29, [0.4201048921, 0.3887745704]], [0.30, [0.4188436921, 0.3894678122]], [0.31, [0.4176605372, 0.3901205278]], [0.32, [0.4165507079, 0.3907345864]], [0.33, [0.4155097620, 0.3913119001]], [0.34, [0.4145335183, 0.3918543805]], [0.35, [0.4136180408, 0.3923639087]], [0.36, [0.4127596249, 0.3928423155]], [0.37, [0.4119547839, 0.3932913679]], [0.38, [0.4112002368, 0.3937127611]], [0.39, [0.4104928967, 0.3941081143]], [0.40, [0.4098298599, 0.3944789685]], [0.41, [0.4092083957, 0.3948267863]], [0.42, [0.4086259366, 0.3951529530]], [0.43, [0.4080800691, 0.3954587785]], [0.44, [0.4075685249, 0.3957454997]], [0.45, [0.4070891727, 0.3960142835]], [0.46, [0.4066400103, 0.3962662296]], [0.47, [0.4062191571, 0.3965023736]], [0.48, [0.4058248473, 0.3967236902]], [0.49, [0.4054554228, 0.3969310964]], [0.50, [0.4051093272, 0.3971254543]], [0.51, [0.4047850997, 0.3973075744]], [0.52, [0.4044813695, 0.3974782181]], [0.53, [0.4041968504, 0.3976381008]], [0.54, [0.4039303356, 0.3977878942]], [0.55, [0.4036806931, 0.3979282291]], [0.56, [0.4034468613, 0.3980596975]], [0.57, [0.4032278445, 0.3981828551]], [0.58, [0.4030227089, 0.3982982232]], [0.59, [0.4028305792, 0.3984062911]], [0.60, [0.4026506346, 0.3985075177]], [0.61, [0.4024821056, 0.3986023334]], [0.62, [0.4023242710, 0.3986911420]], [0.63, [0.4021764547, 0.3987743220]], [0.64, [0.4020380230, 0.3988522283]], [0.65, [0.4019083822, 0.3989251937]], [0.66, [0.4017869757, 0.3989935303]], [0.67, [0.4016732820, 0.3990575305]], [0.68, [0.4015668124, 0.3991174684]], [0.69, [0.4014671091, 0.3991736009]], [0.70, [0.4013737431, 0.3992261689]], [0.71, [0.4012863125, 0.3992753980]], [0.72, [0.4012044408, 0.3993214996]], [0.73, **(11)**

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```
> # Stable
```

> $EquPts(f2, [x, y])$

$$\left\{[-8, 13], \left[-3, \frac{7}{4}\right], \left[-\frac{1}{22}, \frac{3}{11}\right], \left[\frac{1}{3}, \frac{1}{2}\right]\right\} \quad \textbf{(12)}$$

>

> $L5 := Dis2(f2, x, y, [-8, 13] + [0.1, 0.1], 0.01, 10) : print([op(nops(L5) - 5 ..nops(L5), L5)]) :$

[[9.96, [Float(∞), Float(∞)]], [9.97, [Float(∞), Float(∞)]], [9.98, [Float(∞), Float(∞)]], [9.99, [Float(∞), Float(∞)]], [10.00, [Float(∞), Float(∞)]], [10.01, [Float(∞), Float(∞)]]] **(13)**

> $L6 := Dis2\left(f2, x, y, \left[-3, \frac{7}{4}\right] + [0.1, 0.1], 0.01, 10\right) : print([op(nops(L6) - 5 ..nops(L6), L6)]) :$

[[9.96, [Float(∞), Float(∞)]], [9.97, [Float(∞), Float(∞)]], [9.98, [Float(∞), Float(∞)]], [9.99, [Float(∞), Float(∞)]], [10.00, [Float(∞), Float(∞)]], [10.01, [Float(∞), Float(∞)]]] **(14)**

> $L7 := Dis2\left(f2, x, y, \left[-\frac{1}{22}, \frac{3}{11}\right] + [0.1, 0.1], 0.01, 10\right) : print([op(nops(L7) - 5 ..nops(L7), L7)])$

[[9.96, [−0.04545454593, 0.2727272734]], [9.97, [−0.04545454593, 0.2727272734]], [9.98, [−0.04545454593, 0.2727272734]], [9.99, [−0.04545454593, 0.2727272734]], [10.00, [−0.04545454593, 0.2727272734]], [10.01, [−0.04545454593, 0.2727272734]]] **(15)**

```
> # Stable
```

> $L8 := Dis2\left(f2, x, y, \left[\frac{1}{3}, \frac{1}{2}\right] + [0.1, 0.1], 0.01, 10\right) : print([op(nops(L8) - 5 ..nops(L8), L8)])$

[[9.96, [Float(∞), Float(∞)]], [9.97, [Float(∞), Float(∞)]], [9.98, [Float(∞), Float(∞)]], [9.99, [Float(∞), Float(∞)]], [10.00, [Float(∞), Float(∞)]], [10.01, [Float(∞), Float(∞)]]] **(16)**

> $EquPts(f3, [x, y])$

$$\left\{\left[\frac{1}{3}, \frac{1}{12}\right], \left[\frac{8}{7}, -\frac{13}{14}\right], \left[\frac{21}{17}, -\frac{12}{17}\right]\right\} \quad (17)$$

>

> $L9 := Dis2\left(f3, x, y, \left[\frac{1}{3}, \frac{1}{12}\right] + [0.1, 0.1], 0.01, 10\right) : print([op(nops(L9) - 5 ..nops(L9), L9)])$

[[9.96, [0.3333333353, 0.08333333161]], [9.97, [0.3333333353, 0.08333333161]], [9.98, [0.3333333353, 0.08333333161]], [9.99, [0.3333333353, 0.08333333161]], [10.00, [0.3333333353, 0.08333333161]], [10.01, [0.3333333353, 0.08333333161]]] **(18)**

> # Stable

> $L10 := Dis2\left(f3, x, y, \left[\frac{8}{7}, -\frac{13}{14}\right] + [0.1, 0.1], 0.01, 10\right) : print([op(nops(L10) - 5 ..nops(L10), L10)])$

[[9.96, [Float(∞), Float(∞)]], [9.97, [Float(∞), Float(∞)]], [9.98, [Float(∞), Float(∞)]], [9.99, [Float(∞), Float(∞)]], [10.00, [Float(∞), Float(∞)]], [10.01, [Float(∞), Float(∞)]]] **(19)**

> $L11 := Dis2\left(f3, x, y, \left[\frac{21}{17}, -\frac{12}{17}\right] + [0.1, 0.1], 0.01, 10\right) : print([op(nops(L11) - 5 ..nops(L11), L11)])$

[[9.96, [Float(∞), Float(∞)]], [9.97, [Float(∞), Float(∞)]], [9.98, [Float(∞), Float(∞)]], [9.99, [Float(∞), Float(∞)]], [10.00, [Float(∞), Float(∞)]], [10.01, [Float(∞), Float(∞)]]] **(20)**

>
Question 3

> $EquPts(SIRS(s, i, \text{beta}, \text{gamma}, \text{nu}, N), [s, i])$

$$\left\{[N, 0], \left[\frac{\nu}{\beta}, \frac{\gamma (N\beta - \nu)}{\beta (\gamma + \nu)}\right]\right\} \quad (21)$$

> # Seady state abount of suseptible and infected are the same

Question 4

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

> $EquPts(Chemostat(N, C, a1, a2), [N, C])$

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

>

Max Mekhanikov - HW 19 - Okay to post

1. i) $\beta = 0.3 \cdot \frac{\nu}{N} \rightarrow R = N - I N - S$

$$R = 1000 - 996.7 - 2979$$

$$R = 6.279$$

$\beta = 0.9 \cdot \nu/N \longrightarrow R = 1000 - 988.3315 - 8.99$

$$R = 2.678$$

$\beta = 3.9 \cdot \nu/N \rightarrow R = 1000 - 914.6283 - 40$

$$R = 45.372$$

ii) $\beta = 0.3\ \nu/N \longrightarrow R = 1000 - 996.402 - 2.958$

$$R = 0.64$$

$\beta = 09\ \nu/N \longrightarrow R = 1000 - 985.6773 - 8.9797$

$$R = 5.343$$

$\beta = 3.9\ \nu/N \longrightarrow R = 1000 - 872.5259 - 40.8742$

$$R = 86.60$$

iii) $\beta = 0.3\ \nu/N \rightarrow 1000 - 946.62 - 2.94$

$$R = 0.44$$

$\beta = 0.9\ \nu/N \rightarrow R = 3.46$

$\beta = 3.9\ \nu/N \longrightarrow R = 55.86$