```
> #Ok to post homework
  #Jeton Hida, Assignment 18, November 8 2021
  read "/Users/jeton/Desktop/Math 336/M19.txt"

> #Number 1 a chickens lay b eggs in c days, how many eggs do d
  chickens lay in e days
  C:=proc(a,b,c,d,e) option remember:
  local x:
  x:=(d)*(e)*(b)/(a*c):
  RETURN(x):
  end
```

$C := \textbf{proc}(a, b, c, d, e)$ **(1)**

     option *remember*; **local** *x*; $x := d*e*b/(a*c)$; *RETURN*(*x*)

end proc

```
> C(3/2,3/2,3/2,3,3)
```

                               6   **(2)**

```
> #Number 2 #A + B can fill a cistern in a hours, A + C can fill a
  cistern in b hours, B can fill k-times as fast as C
> W:=proc(a,b,k):
  local A,C,c,L,sys:
  sys:={A + (k*C) = 1/a, A + C = 1/b}:
  L:=solve(sys,{A,C}):
  c:=1/eval(C,L):
  print(c):
  end
```

$W := \textbf{proc}(a, b, k)$ **(3)**

     local *A, C, c, L, sys*;

     $sys := \{A + k*C = 1/a, A + C = 1/b\};$

     $L := solve(sys, \{A, C\});$

     $c := 1/eval(C, L);$

     print(*c*)

end proc

```
> W(4,5,2)
```

                             20   **(4)**

```
> #Number 3
  #x'(t) = x(t)(1-x(t)-y(t)) y'(t)=x(t)(3-2x(t)-y(t))

> #x(1-x-y)=0, x(3-2x-y)=0 , x=0,y=anything [0,y1]
  #x+y=1, 2x+y=3, -> x=2, y=-1 [2,-1]

> F:=[x*(1-x-y),x*(3-2*x-y)]
```

            $F := [x(1-x-y), x(3-2x-y)]$ **(5)**

```
> J:=[[diff(F[1],x),diff(F[1],y)],[diff(F[2],x),diff(F[2],y)]]
```

           $J := [[1-2x-y, -x], [3-4x-y, -x]]$ **(6)**

```
> J0:=subs({x=0,y=y1},J)
```

           $J0 := [[1-y1, 0], [3-y1, 0]]$ **(7)**

```
> with(LinearAlgebra):
> Eigenvalues(J0)
```

$$\begin{bmatrix} 0 \\ 1 - y1 \end{bmatrix} \qquad \textbf{(8)}$$

```
> #Could be semistable since we have an eigenvalue of 0, but
  definitley not stable as we would need both to be real negative
  values. So no value of y1 could make this stable
```

```
>
```

```
> J1:=subs({x=2,y=-1},J)
```
$$J1 := [[-2, -2], [-4, -2]] \qquad \textbf{(9)}$$

```
> evalf(Eigenvalues(J1))
```
$$\begin{bmatrix} 0.828427124 \\ -4.828427124 \end{bmatrix} \qquad \textbf{(10)}$$

```
> #Not stable as not both eigenvalues have negative real parts.
```

```
> #Number 4
  #y = anything for first equilibrium pt [0,y1] we'll use 2
```

```
> Dis2(F,x,y,[.1,2.1],.01,1O.)
```
$[[0.01, [0.1, 2.1]], [0.02, [0.0988, 2.1007]], [0.03, [0.0976148940, 2.101393280]], [0.04,$ **(11)**

$[0.09644448344, 2.102079881]], [0.05, [0.09528857281, 2.102759845]], [0.06,$

$[0.09414696957, 2.103433214]], [0.07, [0.09301948412, 2.104100031]], [0.08,$

$[0.09190592972, 2.104760340]], [0.09, [0.09080612246, 2.105414184]], [0.10,$

$[0.08971988118, 2.106061608]], [0.11, [0.08864702745, 2.106702655]], [0.12,$

$[0.08758738549, 2.107337371]], [0.13, [0.08654078214, 2.107965800]], [0.14,$

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$[0.06116651161, 2.123661931]], [0.43, [0.06044179338, 2.124123130]], [0.44,$

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$$\left[-9.436594683\ 10^{5441254958758146806},\ -1.334536018\ 10^{5441254958758146807}\right]\right],\ \left[6.66,\right.\left[$$

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- ∞)]], [7.19, [Float(- ∞), Float(- ∞)]], [7.20, [Float(- ∞), Float(- ∞)]], [7.21, [Float(- ∞), Float(- ∞)]], [7.22, [Float(- ∞), Float(- ∞)]], [7.23, [Float(- ∞), Float(- ∞)]], [7.24, [Float(- ∞), Float(- ∞)]], [7.25, [Float(- ∞), Float(- ∞)]], [7.26, [Float(- ∞), Float(- ∞)]], [7.27, [Float(- ∞), Float(- ∞)]], [7.28, [Float(- ∞), Float(- ∞)]], [7.29, [Float(- ∞), Float(- ∞)]], [7.30, [Float(- ∞), Float(- ∞)]], [7.31, [Float(- ∞), Float(- ∞)]], [7.32, [Float(- ∞), Float(- ∞)]], [7.33, [Float(- ∞), Float(- ∞)]], [7.34, [Float(- ∞), Float(- ∞)]], [7.35, [Float(- ∞), Float(- ∞)]], [7.36, [Float(- ∞), Float(- ∞)]], [7.37, [Float(- ∞), Float(- ∞)]], [7.38, [Float(- ∞), Float(- ∞)]], [7.39, [Float(- ∞), Float(- ∞)]], [7.40, [Float(- ∞), Float(- ∞)]], [7.41, [Float(- ∞), Float(- ∞)]], [7.42, [Float(- ∞), Float(- ∞)]], [7.43, [Float(- ∞), Float(- ∞)]], [7.44, [Float(- ∞), Float(- ∞)]], [7.45, [Float(- ∞), Float(- ∞)]], [7.46, [Float(- ∞), Float(- ∞)]], [7.47, [Float(- ∞), Float(- ∞)]], [7.48, [Float(- ∞), Float(- ∞)]], [7.49, [Float(- ∞), Float(- ∞)]], [7.50, [Float(- ∞), Float(- ∞)]], [7.51, [Float(- ∞), Float(- ∞)]], [7.52, [Float(- ∞), Float(- ∞)]], [7.53, [Float(- ∞), Float(- ∞)]], [7.54, [Float(- ∞), Float(- ∞)]], [7.55, [Float(- ∞), Float(- ∞)]], [7.56, [Float(- ∞), Float(- ∞)]], [7.57, [Float(- ∞), Float(- ∞)]], [7.58, [Float(- ∞), Float(- ∞)]], [7.59, [Float(- ∞), Float(- ∞)]], [7.60, [Float(- ∞), Float(- ∞)]], [7.61, [Float(- ∞), Float(- ∞)]], [7.62, [Float(- ∞), Float(- ∞)]], [7.63, [Float(- ∞), Float(- ∞)]], [7.64, [Float(- ∞), Float(- ∞)]], [7.65, [Float(- ∞), Float(- ∞)]], [7.66, [Float(- ∞), Float(- ∞)]], [7.67, [Float(- ∞), Float(- ∞)]], [7.68, [Float(- ∞), Float(- ∞)]], [7.69, [Float(- ∞), Float(- ∞)]], [7.70, [Float(- ∞), Float(- ∞)]], [7.71, [Float(- ∞), Float(- ∞)]], [7.72, [Float(- ∞), Float(- ∞)]], [7.73, [Float(- ∞), Float(- ∞)]], [7.74, [Float(- ∞), Float(- ∞)]], [7.75, [Float(- ∞), Float(- ∞)]], [7.76, [Float(- ∞), Float(- ∞)]], [7.77, [Float(- ∞), Float(- ∞)]], [7.78, [Float(- ∞), Float(- ∞)]], [7.79, [Float(- ∞), Float(- ∞)]], [7.80, [Float(- ∞), Float(- ∞)]], [7.81, [Float(- ∞), Float(- ∞)]], [7.82, [Float(- ∞), Float(- ∞)]], [7.83, [Float(- ∞), Float(- ∞)]], [7.84, [Float(- ∞), Float(- ∞)]], [7.85, [Float(- ∞), Float(- ∞)]], [7.86, [Float(- ∞), Float(- ∞)]], [7.87, [Float(- ∞), Float(- ∞)]], [7.88, [Float(- ∞), Float(- ∞)]], [7.89, [Float(- ∞), Float(- ∞)]], [7.90, [Float(- ∞), Float(- ∞)]], [7.91, [Float(- ∞), Float(- ∞)]], [7.92, [Float(- ∞), Float(- ∞)]], [7.93, [Float(- ∞), Float(- ∞)]], [7.94, [Float(- ∞), Float(- ∞)]], [7.95, [Float(- ∞), Float(- ∞)]], [7.96, [Float(- ∞), Float(- ∞)]], [7.97, [Float(- ∞), Float(- ∞)]], [7.98, [Float(- ∞), Float(- ∞)]], [7.99, [Float(- ∞), Float(- ∞)]], [8.00, [Float(- ∞), Float(- ∞)]], [8.01, [Float(- ∞), Float(- ∞)]], [8.02, [Float(- ∞), Float(- ∞)]], [8.03, [Float(- ∞), Float(- ∞)]], [8.04, [Float(- ∞), Float(- ∞)]], [8.05, [Float(- ∞), Float(- ∞)]], [8.06, [Float(- ∞), Float(- ∞)]], [8.07, [Float(- ∞), Float(- ∞)]], [8.08, [Float(- ∞), Float(- ∞)]], [8.09, [Float(- ∞), Float(- ∞)]], [8.10, [Float(- ∞), Float(- ∞)]], [8.11, [Float(- ∞), Float(- ∞)]], [8.12, [Float(- ∞), Float(- ∞)]], [8.13, [Float(- ∞), Float(

- ∞)]], [8.14, [Float(- ∞), Float(- ∞)]], [8.15, [Float(- ∞), Float(- ∞)]], [8.16, [Float(- ∞), Float(- ∞)]], [8.17, [Float(- ∞), Float(- ∞)]], [8.18, [Float(- ∞), Float(- ∞)]], [8.19, [Float(- ∞), Float(- ∞)]], [8.20, [Float(- ∞), Float(- ∞)]], [8.21, [Float(- ∞), Float(- ∞)]], [8.22, [Float(- ∞), Float(- ∞)]], [8.23, [Float(- ∞), Float(- ∞)]], [8.24, [Float(- ∞), Float(- ∞)]], [8.25, [Float(- ∞), Float(- ∞)]], [8.26, [Float(- ∞), Float(- ∞)]], [8.27, [Float(- ∞), Float(- ∞)]], [8.28, [Float(- ∞), Float(- ∞)]], [8.29, [Float(- ∞), Float(- ∞)]], [8.30, [Float(- ∞), Float(- ∞)]], [8.31, [Float(- ∞), Float(- ∞)]], [8.32, [Float(- ∞), Float(- ∞)]], [8.33, [Float(- ∞), Float(- ∞)]], [8.34, [Float(- ∞), Float(- ∞)]], [8.35, [Float(- ∞), Float(- ∞)]], [8.36, [Float(- ∞), Float(- ∞)]], [8.37, [Float(- ∞), Float(- ∞)]], [8.38, [Float(- ∞), Float(- ∞)]], [8.39, [Float(- ∞), Float(- ∞)]], [8.40, [Float(- ∞), Float(- ∞)]], [8.41, [Float(- ∞), Float(- ∞)]], [8.42, [Float(- ∞), Float(- ∞)]], [8.43, [Float(- ∞), Float(- ∞)]], [8.44, [Float(- ∞), Float(- ∞)]], [8.45, [Float(- ∞), Float(- ∞)]], [8.46, [Float(- ∞), Float(- ∞)]], [8.47, [Float(- ∞), Float(- ∞)]], [8.48, [Float(- ∞), Float(- ∞)]], [8.49, [Float(- ∞), Float(- ∞)]], [8.50, [Float(- ∞), Float(- ∞)]], [8.51, [Float(- ∞), Float(- ∞)]], [8.52, [Float(- ∞), Float(- ∞)]], [8.53, [Float(- ∞), Float(- ∞)]], [8.54, [Float(- ∞), Float(- ∞)]], [8.55, [Float(- ∞), Float(- ∞)]], [8.56, [Float(- ∞), Float(- ∞)]], [8.57, [Float(- ∞), Float(- ∞)]], [8.58, [Float(- ∞), Float(- ∞)]], [8.59, [Float(- ∞), Float(- ∞)]], [8.60, [Float(- ∞), Float(- ∞)]], [8.61, [Float(- ∞), Float(- ∞)]], [8.62, [Float(- ∞), Float(- ∞)]], [8.63, [Float(- ∞), Float(- ∞)]], [8.64, [Float(- ∞), Float(- ∞)]], [8.65, [Float(- ∞), Float(- ∞)]], [8.66, [Float(- ∞), Float(- ∞)]], [8.67, [Float(- ∞), Float(- ∞)]], [8.68, [Float(- ∞), Float(- ∞)]], [8.69, [Float(- ∞), Float(- ∞)]], [8.70, [Float(- ∞), Float(- ∞)]], [8.71, [Float(- ∞), Float(- ∞)]], [8.72, [Float(- ∞), Float(- ∞)]], [8.73, [Float(- ∞), Float(- ∞)]], [8.74, [Float(- ∞), Float(- ∞)]], [8.75, [Float(- ∞), Float(- ∞)]], [8.76, [Float(- ∞), Float(- ∞)]], [8.77, [Float(- ∞), Float(- ∞)]], [8.78, [Float(- ∞), Float(- ∞)]], [8.79, [Float(- ∞), Float(- ∞)]], [8.80, [Float(- ∞), Float(- ∞)]], [8.81, [Float(- ∞), Float(- ∞)]], [8.82, [Float(- ∞), Float(- ∞)]], [8.83, [Float(- ∞), Float(- ∞)]], [8.84, [Float(- ∞), Float(- ∞)]], [8.85, [Float(- ∞), Float(- ∞)]], [8.86, [Float(- ∞), Float(- ∞)]], [8.87, [Float(- ∞), Float(- ∞)]], [8.88, [Float(- ∞), Float(- ∞)]], [8.89, [Float(- ∞), Float(- ∞)]], [8.90, [Float(- ∞), Float(- ∞)]], [8.91, [Float(- ∞), Float(- ∞)]], [8.92, [Float(- ∞), Float(- ∞)]], [8.93, [Float(- ∞), Float(- ∞)]], [8.94, [Float(- ∞), Float(- ∞)]], [8.95, [Float(- ∞), Float(- ∞)]], [8.96, [Float(- ∞), Float(- ∞)]], [8.97, [Float(- ∞), Float(- ∞)]], [8.98, [Float(- ∞), Float(- ∞)]], [8.99, [Float(- ∞), Float(- ∞)]], [9.00, [Float(- ∞), Float(- ∞)]], [9.01, [Float(- ∞), Float(- ∞)]], [9.02, [Float(- ∞), Float(- ∞)]], [9.03, [Float(- ∞), Float(- ∞)]], [9.04, [Float(- ∞), Float(- ∞)]], [9.05, [Float(- ∞), Float(- ∞)]], [9.06, [Float(- ∞), Float(- ∞)]], [9.07, [Float(- ∞), Float(- ∞)]], [9.08, [Float(- ∞), Float(

- ∞)]], [9.09, [Float(- ∞), Float(- ∞)]], [9.10, [Float(- ∞), Float(- ∞)]], [9.11, [Float(- ∞), Float(- ∞)]], [9.12, [Float(- ∞), Float(- ∞)]], [9.13, [Float(- ∞), Float(- ∞)]], [9.14, [Float(- ∞), Float(- ∞)]], [9.15, [Float(- ∞), Float(- ∞)]], [9.16, [Float(- ∞), Float(- ∞)]], [9.17, [Float(- ∞), Float(- ∞)]], [9.18, [Float(- ∞), Float(- ∞)]], [9.19, [Float(- ∞), Float(- ∞)]], [9.20, [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(- ∞)]]]]

> **#Confirmed no stability for either set of fixed points.**

> **#Number 5**
> **L:=Dis2(SIRS(s,i,(.01),gamma,1,50),x,y,[20,30],.01,10):**
> **op(nops(L)-3..nops(L),L)**

$$[9.98, [20 - 0.0997\,s\,i - 9.97\,\gamma\,i - 9.97\,\gamma\,s + 498.50\,\gamma, 30 + 0.0997\,s\,i - 9.97\,i]], [9.99, \tag{13}$$
$$[20 - 0.0998\,s\,i - 9.98\,\gamma\,i - 9.98\,\gamma\,s + 499.00\,\gamma, 30 + 0.0998\,s\,i - 9.98\,i]], [10.00, [20$$
$$- 0.0999\,s\,i - 9.99\,\gamma\,i - 9.99\,\gamma\,s + 499.50\,\gamma, 30 + 0.0999\,s\,i - 9.99\,i]], [10.01, [20$$
$$- 0.1000\,s\,i - 10.00\,\gamma\,i - 10.00\,\gamma\,s + 500.00\,\gamma, 30 + 0.1000\,s\,i - 10.00\,i]]$$

> **V:=Dis2(SIRS(s,i,(.01),gamma,1,80),x,y,[50,30],.01,10):**
> **op(nops(V)-3..nops(V),V)**

$$[9.98, [50 - 0.0997\,s\,i - 9.97\,\gamma\,i - 9.97\,\gamma\,s + 797.60\,\gamma, 30 + 0.0997\,s\,i - 9.97\,i]], [9.99, \tag{14}$$
$$[50 - 0.0998\,s\,i - 9.98\,\gamma\,i - 9.98\,\gamma\,s + 798.40\,\gamma, 30 + 0.0998\,s\,i - 9.98\,i]], [10.00, [50$$
$$- 0.0999\,s\,i - 9.99\,\gamma\,i - 9.99\,\gamma\,s + 799.20\,\gamma, 30 + 0.0999\,s\,i - 9.99\,i]], [10.01, [50$$
$$- 0.1000\,s\,i - 10.00\,\gamma\,i - 10.00\,\gamma\,s + 800.00\,\gamma, 30 + 0.1000\,s\,i - 10.00\,i]]$$

> **X:=Dis2(SIRS(s,i,(.01),gamma,1,120),x,y,[90,30],.01,10):**
> **op(nops(X)-3..nops(X),X)**

$$[9.98, [90 - 0.0997\,s\,i - 9.97\,\gamma\,i - 9.97\,\gamma\,s + 1196.40\,\gamma, 30 + 0.0997\,s\,i - 9.97\,i]], [9.99, \tag{15}$$
$$[90 - 0.0998\,s\,i - 9.98\,\gamma\,i - 9.98\,\gamma\,s + 1197.60\,\gamma, 30 + 0.0998\,s\,i - 9.98\,i]], [10.00, [90$$
$$- 0.0999\,s\,i - 9.99\,\gamma\,i - 9.99\,\gamma\,s + 1198.80\,\gamma, 30 + 0.0999\,s\,i - 9.99\,i]], [10.01, [90$$
$$- 0.1000\,s\,i - 10.00\,\gamma\,i - 10.00\,\gamma\,s + 1200.00\,\gamma, 30 + 0.1000\,s\,i - 10.00\,i]]$$