Charles Griebell

Homework 19

OK to post

PREAMBLE:

```
> read `C:/Users/cgrie/Dynam Models Bio/Homeworks/HW19/M19.txt`;
  Help19();
```

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) **(1)**

#Problem 1
Carefully read the Maple code for procedure

SIRSdemo(N,IN, gamma,nu,h,A)

and run it for the following parameter values (with h=0.01)

Population = 1000 people
Initial infected people = 200 people
No dead people (or removed people) at t=0 (the start)

```
> SIRSdemo(1000,200,gamma,nu,0.01,A);
```

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=*, *A*

with population size, 1000, *and fixed parameters nu=*, ν, *and gamma=*, γ

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

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

We will show what happens once time is close to, *A*

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

Error, (in Orb2) final value in for loop must be numeric or character
|C:/Users/cgrie/Dynam Models Bio/Homeworks/HW19/M19.txt:198|

```
> #at time t=10 (In SIRSdemo, let A=10),
  #SIRSdemo(1000,200,gamma,nu,0.01,10);

  #Let nu =1, gamma = 3
```

```
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]]] **(2)**

1000 - (914.6283415 + 40.00114971) *people have died*

```
> #LEt nu=2, gamma =3
  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]]] **(3)**

here, 1000 - (872.5258747 + 40.87422371) *have died*

```
> #LEt nu =  3, gamma = 7
  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]]] **(4)**

here, 1000 - 902.1900937 + 41.94669340 *people died*

#PROBLEM 2

Using RandNice([x,y],8) 3 times, (call it F) each time.

```
> F1:= RandNice([x,y],8);
  F2:= RandNice([x,y],8);
  F3:= RandNice([x,y],8);
```

$$F1 := [(1-2x-4y)(5-3x-4y), (8-x-7y)(8-x-y)]$$
$$F2 := [(2-2x-3y)(4-7x-5y), (8-x-6y)(4-x-7y)]$$
$$F3 := [(2-x-5y)(1-x-4y), (3-5x-7y)(4-6x-4y)] \quad \textbf{(5)}$$

For each of them find the following:

(i) The set of equilibrium points

```
> print(`Equilibrium points for F1`);
  e1 := EquPts(F1,[x,y]);
  print(`Equilibrium points for F2`);
  e2 := EquPts(F2,[x,y]);
  print(`Equilibrium points for F3`);
  e3:= EquPts(F3,[x,y]);
```

$$\textit{Equilibrium points for F1}$$

$$e1 := \left\{[27, -19], \left[-\frac{5}{2}, \frac{3}{2}\right], \left[\frac{3}{17}, \frac{19}{17}\right], \left[\frac{31}{2}, -\frac{15}{2}\right]\right\}$$

$$\textit{Equilibrium points for F2}$$

$$e2 := \left\{\left[-\frac{16}{37}, \frac{52}{37}\right], \left[-\frac{4}{3}, \frac{14}{9}\right], \left[\frac{2}{11}, \frac{6}{11}\right]\right\}$$

$$\textit{Equilibrium points for F3}$$

$$e3 := \left\{\left[\frac{1}{18}, \frac{7}{18}\right], \left[\frac{3}{5}, \frac{1}{10}\right], \left[\frac{5}{13}, \frac{2}{13}\right], \left[\frac{6}{13}, \frac{4}{13}\right]\right\} \quad (6)$$

(ii) The set of stable equilibrium points

```
> print(`Stable Equilibrium points for F1`);
  s1:= StEquPts(F1,[x,y]);
  print(`Stable Equilibrium points for F2`);
  s2:= StEquPts(F2,[x,y]);
  print(`Stable Equilibrium points for F3`);
  s3:= StEquPts(F3,[x,y]);
```

$$\textit{Stable Equilibrium points for F1}$$

$$s1 := \left\{\left[-\frac{5}{2}, \frac{3}{2}\right], \left[\frac{31}{2}, -\frac{15}{2}\right]\right\}$$

$$\textit{Stable Equilibrium points for F2}$$

$$s2 := \varnothing$$

$$\textit{Stable Equilibrium points for F3}$$

$$s3 := \left\{\left[\frac{1}{18}, \frac{7}{18}\right]\right\} \quad (7)$$

(iii) Using Dis2(F,x,y,pt+[0.1,0.1],0.01,10) ;
confirm numerically that for **pt** in the stable set it converges to that point, but for the other equilibrium points, the orbit goes elsewhere.

```
> alleged_unstable1 := e1 minus s1;
  alleged_unstable2 := e2 minus s2;
  alleged_unstable3 := e3 minus s3;
```

$$\textit{alleged\_unstable1} := \left\{[27, -19], \left[\frac{3}{17}, \frac{19}{17}\right]\right\}$$

$$\textit{alleged\_unstable2} := \left\{\left[-\frac{16}{37}, \frac{52}{37}\right], \left[-\frac{4}{3}, \frac{14}{9}\right], \left[\frac{2}{11}, \frac{6}{11}\right]\right\}$$

$$\textit{alleged\_unstable3} := \left\{\left[\frac{3}{5}, \frac{1}{10}\right], \left[\frac{5}{13}, \frac{2}{13}\right], \left[\frac{6}{13}, \frac{4}{13}\right]\right\} \quad (8)$$

```
> #Stable equilibria of f1:
  if nops(s1)=0 then print(`no stable equilibra`);
  end if:
  for i in s1 do:
  print(`for stable equilibrium point`, i);
  print(Dis2(F1,x,y,i+[0.01,0.01],0.01,10));
  od:
```

$$\textit{for stable equilibrium point}, \left[-\frac{5}{2}, \frac{3}{2}\right]$$

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for stable equilibrium point, $\left[\frac{31}{2}, -\frac{15}{2}\right]$

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```
> #unstable equilibrium point of f1:
  for i in alleged_unstable1 do:
  print(`for unstable equilibrium point`, i);
  print(Dis2(F1,x,y,i+[0.01,0.01],0.01,10));
  od:
```

for unstable equilibrium point, [27, −19]

[[0.01, [27.01, −18.99]], [0.02, [26.993942, −19.012784]], [0.03, [27.00992714, −18.99128612]], [0.04, [26.99509601, −19.01252366]], [0.05, [27.01004035, −18.99264001]], [0.06, [26.99637081, −19.01246569]], [0.07, [27.01037809, −18.99410290]], [0.08, [26.99781614, −19.01264821]], [0.09, [27.01099076, −18.99572619]], [0.10, [26.99949480, −19.01312156]], [0.11, [27.01194411, −18.99757447]], [0.12, [27.00148648, −19.01395170]], [0.13, [27.01332350, −18.99972936]], [0.14, [27.00389268, −19.01522461]], [0.15, [27.01523951, −19.00229457]], [0.16, [27.00684304, −19.01705191]], [0.17, [27.01783509,

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[10.01, [Float(∞), Float(∞)]]]

for unstable equilibrium point, $\left[\frac{3}{17}, \frac{19}{17}\right]$

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$\times 10^{504}]], [0.69, [1.705883612 \times 10^{1009}, 5.114269187 \times 10^{1008}]], [0.70, [3.909384927$
$\times 10^{2017}, 1.172041975 \times 10^{2017}]], [0.71, [2.053179258 \times 10^{4034}, 6.155477308 \times 10^{4033}]],$
$[0.72, [5.663225120 \times 10^{8067}, 1.697847680 \times 10^{8067}]], [0.73, [4.308615731 \times 10^{16134},$
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$\times 10^{8260487}, 5.931156867 \times 10^{8260486}]], [0.83, [5.257982279 \times 10^{16520973}, 1.576355000$
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```
> #Stable equilibrium points of f2
  if nops(s2)=0 then print(`no stable equilibra`);
  end if:
  for i in s2 do:
  print(`for stable equilibrium point`, i);
  print(Dis2(F2,x,y,i+[0.01,0.01],0.01,10));
  od:
```

no stable equilibra **(11)**

```
> #unstable equilibrium point of f2:
  for i in alleged_unstable2 do:
  print(`for unstable equilibrium point`, i);
  print(Dis2(F2,x,y,i+[0.01,0.01],0.01,10));
  od:
```

for unstable equilibrium point, $\left[-\frac{16}{37}, \frac{52}{37}\right]$

[[0.01, [−0.4224324324, 1.415405405]], [0.02, [−0.4207508108, 1.419245189]], [0.03, [−0.4186127186, 1.424468035]], [0.04, [−0.4158545210, 1.431586299]], [0.05, [−0.4122415216, 1.441320559]], [0.06, [−0.4074295126, 1.454700222]], [0.07, [−0.4008995440, 1.473226309]], [0.08, [−0.3918420907, 1.499146581]], [0.09, [−0.3789402830, 1.535945032]], [0.10, [−0.3599386012, 1.589267109]], [0.11, [−0.3307195297, 1.668799973]], [0.12, [−0.2831411378, 1.792447683]], [0.13, [−0.1993644865, 1.996695977]], [0.14, [−0.0345955061, 2.366365087]], [0.15, [0.3471569686, 3.138661083]], [0.16, [1.492607022, 5.186428835]], [0.17, [6.849781371, 13.50441920]], [0.18, [65.05170752, 91.28852853]], [0.19, [3714.144767, 4325.200538]], [0.20, [$9.719302001 \times 10^{6}$, $1.008383417 \times 10^{7}$]], [0.21, [$5.886006570 \times 10^{13}$, $5.639282587 \times 10^{13}$]], [0.22, [$1.991032133 \times 10^{27}$, $1.801815520 \times 10^{27}$]], [0.23, [$2.154086634 \times 10^{54}$, $1.869559977 \times 10^{54}$]], [0.24, [$2.422330857 \times 10^{108}$, $2.037943025 \times 10^{108}$]], [0.25, [$2.974795320 \times 10^{216}$, $2.444780210 \times 10^{216}$]], [0.26, [$4.390002974 \times 10^{432}$, 3.544266882

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$$\textit{for unstable equilibrium point}, \left[-\frac{4}{3}, \frac{14}{9}\right]$$

[[0.01, [−1.323333333, 1.565555556]], [0.02, [−1.326051111, 1.569500445]], [0.03, [−1.329116321, 1.574648714]], [0.04, [−1.332684939, 1.581411134]], [0.05, [−1.336960713, 1.590348640]], [0.06, [−1.342212217, 1.602236973]], [0.07, [−1.348796489, 1.618166325]], [0.08, [−1.357192127, 1.639700493]], [0.09, [−1.368045912, 1.669141777]], [0.10, [−1.382238316, 1.709993619]], [0.11, [−1.400972966, 1.767815552]], [0.12, [−1.425886183, 1.851913252]], [0.13, [−1.459124968, 1.978964960]], [0.14, [−1.503120752, 2.181642982]], [0.15, [−1.558723228, 2.532009100]], [0.16, [−1.614516507, 3.217323041]], [0.17, [−1.579796474, 4.855488846]], [0.18, [−0.7125891290, 10.41026619]], [0.19, [11.26140272, 47.04519994]], [0.20, [512.4926944, 1008.084558]], [0.21, [349541.1949, 496748.0816]], [0.22, [$1.079455430 \times 10^{11}$, $1.274328929 \times 10^{11}$]], [0.23, [$8.331486942 \times 10^{21}$, $8.725217790 \times 10^{21}$]], [0.24, [$4.367248006 \times 10^{43}$, $4.211872040 \times 10^{43}$]], [0.25, [$1.103340946 \times 10^{87}$, $1.003272998 \times 10^{87}$]], [0.26, [$6.645692556 \times 10^{173}$, $5.788312132 \times 10^{173}$]], [0.27, [$2.313369202 \times 10^{347}$, $1.951432095 \times 10^{347}$]], [0.28, [2.719906573

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$$\textit{for unstable equilibrium point}, \left[\frac{2}{11}, \frac{6}{11}\right]$$

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Analyzing F3:

```
> #Stable equilibrium of f3
  if nops(s3)=0 then print(`no stable equilibra`);
  end if:
  for i in s3 do:
  print(`for stable equilibrium point`, i);
  print(Dis2(F3,x,y,i+[0.01,0.01],0.01,10));
  od:
```

$$\textit{for stable equilibrium point}, \left[\frac{1}{18}, \frac{7}{18}\right]$$

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```
> #unstable equilibrium points of f3:
  for i in alleged_unstable3 do:
  print(`for unstable equilibrium point`, i);
  print(Dis2(F3,x,y,i+[0.01,0.01],0.01,10));
  od:
```

$$\textit{for unstable equilibrium point}, \left[\frac{3}{5}, \frac{1}{10}\right]$$

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for unstable equilibrium point, $\left[\frac{5}{13}, \frac{2}{13}\right]$

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$$\textit{for unstable equilibrium point}, \left[\frac{6}{13}, \frac{4}{13}\right]$$

[[0.01, [0.4715384615, 0.3176923077]], [0.02, [0.4719838461, 0.3192738462]], [0.03, [0.4724958648, 0.3210121931]], [0.04, [0.4730826168, 0.3229279607]], [0.05, [0.4737535130, 0.3250450166]], [0.06, [0.4745195416, 0.3273911414]], [0.07, [0.4753936013, 0.3299988528]], [0.08, [0.4763909226, 0.3329064467]], [0.09, [0.4775296053, 0.3361593252]], [0.10, [0.4788313112, 0.3398117066]], [0.11, [0.4803221671, 0.3439288527]], [0.12, [0.4820339549, 0.3485900032]], [0.13, [0.4840057009, 0.3538922915]], [0.14, [0.4862858278, 0.3599560449]], [0.15, [0.4889351141, 0.3669320679]], [0.16, [0.4920308333, 0.3750118240]], [0.17, [0.4956726524, 0.3844419389]], [0.18, [0.4999912174, 0.3955452986]], [0.19, [0.5051609467, 0.4087524738]], [0.20, [0.5114196103, 0.4246497906]], [0.21, [0.5190992191, 0.4440551352]], [0.22, [0.5286764882, 0.4681417452]], [0.23, [0.5408586917, 0.4986487355]], [0.24, [0.5567368541, 0.5382566046]], [0.25, [0.5780750396, 0.5912961029]], [0.26, [0.6078954354, 0.6651814561]], [0.27, [0.6517660949, 0.7735639277]], [0.28, [0.7209544686, 0.9440525743]], [0.29, [0.8412995090, 1.239931056]], [0.30, [1.083316945, 1.833835507]], [0.31, [1.695541367, 3.334047842]], [0.32, [3.991943959, 8.955896088]], [0.33, [22.14651944, 53.38143473]], [0.34, [695.7819033, 1701.727450]], [0.35, [691032.8960, $1.690935186 \times 10^{6}$]], [0.36, [$6.817923412 \times 10^{11}$, $1.668316936 \times 10^{12}$]], [0.37, [$6.636748016 \times 10^{23}$, $1.623987371 \times 10^{24}$]], [0.38, [$6.288735934 \times 10^{47}$, $1.538828755 \times 10^{48}$]], [0.39, [$5.646491965 \times 10^{95}$, $1.381674738 \times 10^{96}$]], [0.40, [$4.552078412 \times 10^{191}$, $1.113875787 \times 10^{192}$]], [0.41, **(14)**

$[2.958500449 \times 10^{383}, 7.239335445 \times 10^{383}]], [0.42, [1.249670473 \times 10^{767}, 3.057894906 \times 10^{767}]], [0.43, [2.229683500 \times 10^{1534}, 5.455948641 \times 10^{1534}]], [0.44, [7.098043477 \times 10^{3068}, 1.736863568 \times 10^{3069}]], [0.45, [7.193322310 \times 10^{6137}, 1.760177933 \times 10^{6138}]],$
$[0.46, [7.387734045 \times 10^{12275}, 1.807749723 \times 10^{12276}]], [0.47, [7.792462412 \times 10^{24551}, 1.906785179 \times 10^{24552}]], [0.48, [8.669651576 \times 10^{49103}, 2.121429946 \times 10^{49104}]], [0.49, [1.073137816 \times 10^{98208}, 2.625926405 \times 10^{98208}]], [0.50, [1.644232429 \times 10^{196416}, 4.023372664 \times 10^{196416}]], [0.51, [3.859922905 \times 10^{392832}, 9.445080893 \times 10^{392832}]], [0.52, [2.127205623 \times 10^{785665}, 5.205189243 \times 10^{785665}]], [0.53, [6.460574752 \times 10^{1571330}, 1.580877460 \times 10^{1571331}]], [0.54, [5.959290043 \times 10^{3142661}, 1.458215045 \times 10^{3142662}]],$
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$[0.68, [2.846100797 \times 10^{51489373058}, 6.964297714 \times 10^{51489373058}]], [0.69, [1.156518983 \times 10^{102978746117}, 2.829956870 \times 10^{102978746117}]], [0.70, [1.909667434 \times 10^{205957492234}, 4.672881777 \times 10^{205957492234}]], [0.71, [5.206761629 \times 10^{411914984468}, 1.274074276 \times 10^{411914984469}]], [0.72, [3.870682983 \times 10^{823829968937}, 9.471410385 \times 10^{823829968937}]],$
$[0.73, [2.139081923 \times 10^{1647659937875}, 5.234250089 \times 10^{1647659937875}]], [0.74, [6.532915589 \times 10^{3295319875750}, 1.598578981 \times 10^{3295319875751}]], [0.75, [6.093492842 \times 10^{6590639751501}, 1.491053947 \times 10^{6590639751502}]], [0.76, [5.301329790 \times 10^{13181279503003}, 1.297214736 \times 10^{13181279503004}]], [0.77, [4.012562921 \times 10^{26362559006007}, 9.818585065 \times 10^{26362559006007}]], [0.78, [2.298772128 \times 10^{52725118012015}, 5.625005794 \times 10^{52725118012015}]], [0.79, [7.544736160 \times 10^{105450236024030}, 1.846167530 \times 10^{105450236024031}]], [0.80, [8.127188364 \times 10^{210900472048061}, 1.988691315 \times 10^{210900472048062}]], [0.81, [9.430459684 \times 10^{421800944096123}, 2.307596725 \times 10^{421800944096124}]], [0.82, [1.269749167 \times 10^{843601888192248}, 3.107026719$

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PROBLEM 3:

Use EquPts(F,var) together with SIRS to find all the equilibrium points of the SIRS model,
confirming Equations

Problems 4:

Write a Maple code Chemostat(N,C,a1,a2) (analogous to SIRS) giving the underlying transformation

#Chemostat info is on page 126 of the book
#Parameters:
#

```
> print(SIRS);
```

proc$(s, i, \beta, \gamma, \nu, N)$ $[-\beta * s * i + \gamma * (N - s - i), \beta * s * i - \nu * i]$ **end proc** **(15)**

```
> Chemostat := proc(N,C,a1,a2);
  [a1*C/(1+C)* N - N,-C/(1+C)*N+a2];
  end:
```

#Writing the underlying transformation is done

```
> Chemostat(N,C,a1,a2);
```

$$\left[\frac{a1\,C\,N}{C+1}-N,\ -\frac{C\,N}{C+1}+a2\right] \quad (16)$$

$$\left[1,\ \frac{10}{3}\right] \quad (17)$$

NOW FIND THE EQUILIBRIUM POINTS of chemostat
#In the chemostat model, the "N" and "C" are the "x" and "y"

```
> EquPts(Chemostat(y,x,y,x),[x,y]);
```

$$\{[0,0],\ [1,2]\} \quad (18)$$

Problem 5 (10 brownie points) Write a Dis3(x

```
> print(Dis2);
proc(F, x, y, pt, h, A)                                                    (19)
    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 proc
> print(Orbk);
proc(k, z, f, INI, K1, K2)                                                 (20)
    local L, i, newguy;
    L := INI;
    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 0 < K1 and K1 < K2) then
        print(bad input); RETURN(FAIL)
    end if;
    while nops(L) < K2 do
        newguy := subs({seq(z[i] = L[-i], i = 1 ..k)}, f); L := [op(L), newguy]
    end do;
    [op(K1 ..K2, L)]
end proc
```

Code for dis3

```
> Dis3 := proc(F,x,y,z,pt,h,A) local L;
  L := Orbk(3,g,g[1]+h*F[1]+g[2]+h*F[2]+g[3]+h*F[3],10,100);
  print(L);
  end;
Dis3 := proc(F, x, y, z, pt, h, A)                                         (21)
```

local L;

$L := Orbk(3, g, g[1] + h*F[1] + g[2] + h*F[2] + g[3] + h*F[3], 10, 100)$; $print(L)$

end proc

```
> dF1 := RandNice([x,y,z],10);
  print(Dis3(dF1,x,y,z,[1,1,1],0.01,100));
  dF2 := RandNice([x,y,z],10);
```

$$dF1 := [(2 - 2x - y - 3z)(5 - 4x - 3y - 10z), (1 - 8x - 3y - 8z)(8 - 7x - 5y - 6z), (7 - x - 5y - 6z)(6 - 6x - 4y - 10z)]$$

bad input

FAIL

$$dF2 := [(10 - 5x - 9y - 9z)(5 - 10x - 9y - 5z), (5 - 2x - 4y - 9z)(10 - 3x - 7y - z), (4 - 9x - 5y - 9z)(10 - 7x - 9y - 6z)] \quad (22)$$