```
> #Hrudai Battini Hw 20
  read "/Users/hb334/Documents/DMB.txt":
> #1(i) 3 variations
  N := 1000;
  v := 2;
  a := 5;
  b1 := 0.3 * v/N;
  b2 := 0.9 * v/N;
  b3 := 3.9 \times v/N;
  F := SIRS(s,i,b1,q,v,N);
  EquP(F,[s,i]);
  SEquP(F,[s,i]);
  TimeSeries(F,[s,i],[800,200],0.01,10,1);
  TimeSeries(F,[s,i],[800,200],0.01,10,2);
  PhaseDiag(F,[s,i],[800,200],0.01,10);
  F := SIRS(s,i,b2,q,v,N);
  EquP(F, [s, i]);
  SEquP(F,[s,i]);
  TimeSeries(F,[s,i],[800,200],0.01,10,1);
  TimeSeries(F,[s,i],[800,200],0.01,10,2);
  PhaseDiag(F,[s,i],[800,200],0.01,10);
  F := SIRS(s,i,b3,g,v,N);
  EquP(F,[s,i]);
  SEquP(F,[s,i]);
  TimeSeries(F,[s,i],[800,200],0.01,10,1);
  TimeSeries(F,[s,i],[800,200],0.01,10,2);
  PhaseDiag(F,[s,i],[800,200],0.01,10);
                                 N := 1000
                                   v \coloneqq 2
                                  g \coloneqq 5
                            b1 := 0.0006000000000
                            b2 := 0.00180000000
                            b3 := 0.00780000000
       F := [-0.00060000000 \, s \, i + 5000 - 5 \, s - 5 \, i, \, 0.000600000000 \, s \, i - 2 \, i]
                   \{[1000., 0.], [3333.333333, -1666.666667]\}
                                {[1000., 0.]}
```

















































