```
The water temperature will remain constant at T=12.5
The Jacobian for the critical point (0,0) is:
J 1 =
   1277/2717
n
                    0
                   -43/2667
The eigenvalues of the Jacobian above are:
     -43/2667
   1277/2717
The Jacobian for the critical point (0,6) is:
J 2 =
     624/2713
                    0
      3/6250
                   43/2667
The eigenvalues of the Jacobian above are:
      43/2667
     624/2713
The Jacobian for the critical point (15,0) is:
J_3 =
  -1277/2717
                   -3/5
      0
                   -94/6299
The eigenvalues of the Jacobian above are:
  -1277/2717
     -94/6299
The Jacobian for the critical point (7.630484,5.772832) is:
J_4 =
                 -807/2644
   -389/1627
                   97/6253
     19/41141
The eigenvalues of the Jacobian above are:
   -645/2704
    214/14307
>>
```