```
The water temperature will remain constant at T=22.2
The Jacobian for the critical point (0,0) is:
J 1 =
  -1205/7344
                    0
                   -43/2667
      0
The eigenvalues of the Jacobian above are:
  -1205/7344
     -43/2667
The Jacobian for the critical point (0,6) is:
J 2 =
   -733/1814
                    0
      3/6250
                   43/2667
The eigenvalues of the Jacobian above are:
      43/2667
   -733/1814
The Jacobian for the critical point (15,0) is:
J_3 =
   1205/7344
                   -3/5
      0
                   -94/6299
The eigenvalues of the Jacobian above are:
   1205/7344
     -94/6299
The Jacobian for the critical point (33.313837,5.008209) is:
J_4 =
   2791/7659
                 -569/427
                   85/6316
     10/24959
The eigenvalues of the Jacobian above are:
   1003/2764
     37/2469
>>
```