```
The Jacobian for the critical point (0,0) is:
J 1 =
  -1967/1052
                    0
                   -43/2667
      0
The eigenvalues of the Jacobian above are:
  -1967/1052
     -43/2667
The Jacobian for the critical point (0,6) is:
J 2 =
  -1576/747
                     0
       3/6250
                   43/2667
The eigenvalues of the Jacobian above are:
      43/2667
  -1576/747
The Jacobian for the critical point (15,0) is:
J_3 =
   1967/1052
                   -3/5
      0
                   -94/6299
The eigenvalues of the Jacobian above are:
   1967/1052
     -94/6299
The Jacobian for the critical point (16.765204,5.500881) is:
J_4 =
                 -397/592
     861/412
     11/24996
                   63/4262
The eigenvalues of the Jacobian above are:
   1375/658
    164/10989
>>
```

The water temperature will remain constant at T=30.0