The water temperature will remain constant at T=12.5

The Jacobian for the critical point (0,0) is:
J_1 =

    1277/2717   0
        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 =

    -389/1627   -807/2644
      19/41141   97/6253
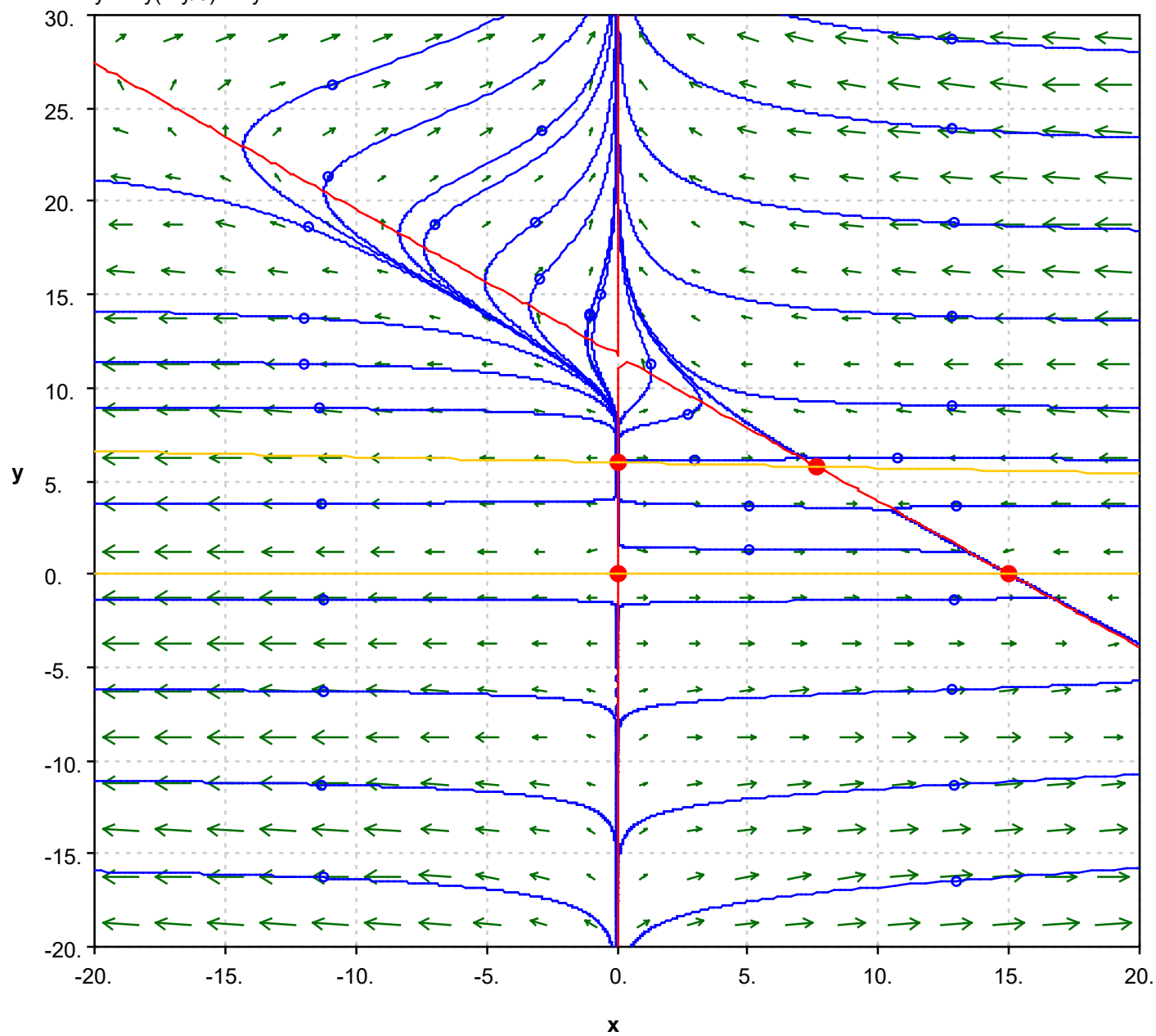
The eigenvalues of the Jacobian above are:
    -645/2704
     214/14307

>>

x´ = Rx(1-x/15)-cxy

y´ = ry(1-y/6)+dxy

The water temperature will remain constant at T=22.2

The Jacobian for the critical point (0,0) is:
J_1 =

    -1205/7344   0
        0   -43/2667

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 =
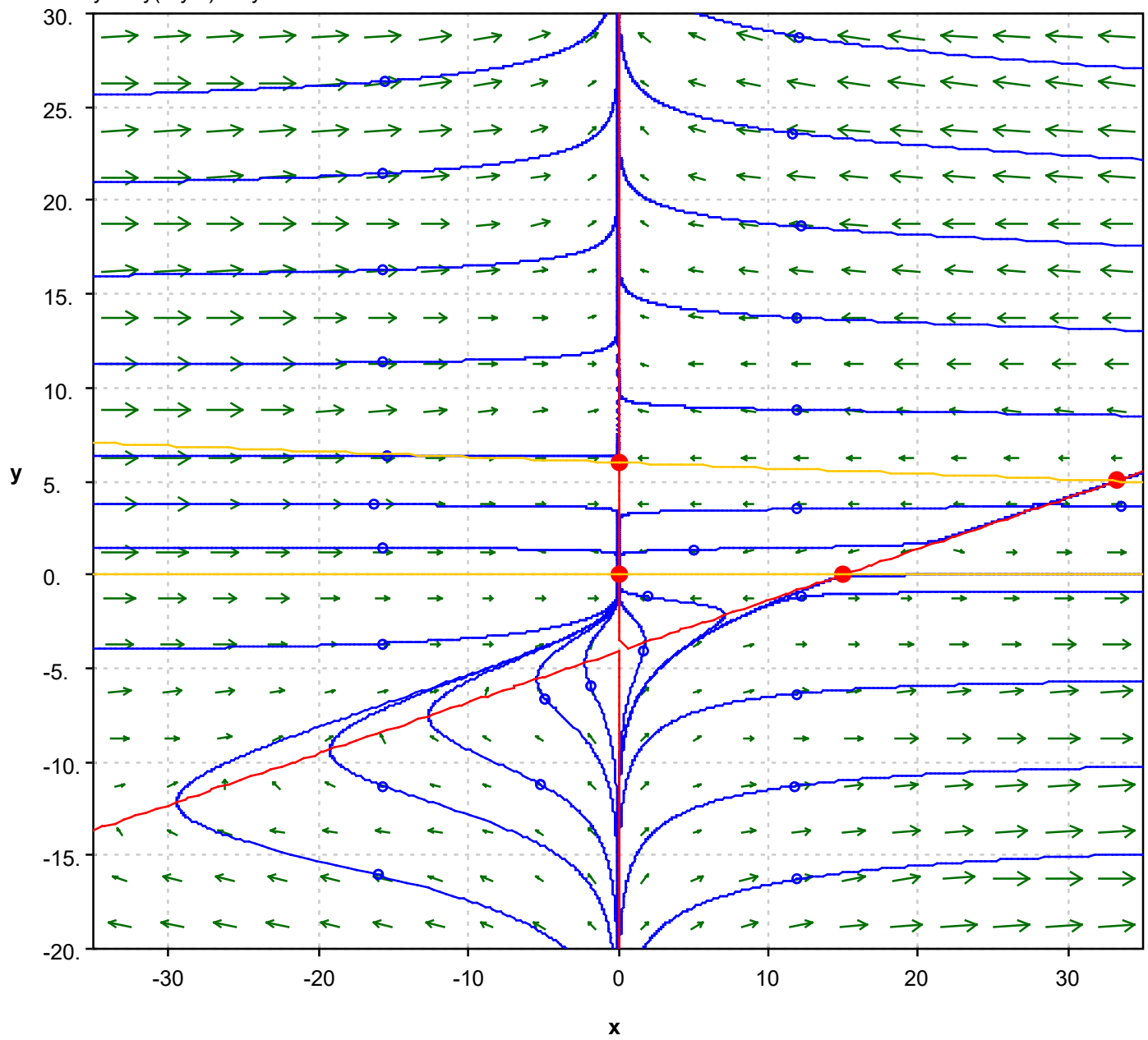
    2791/7659   -569/427
      10/24959   85/6316

The eigenvalues of the Jacobian above are:
    1003/2764
      37/2469

>>

x´ = Rx(1-x/15)-cxy

y´ = ry(1-y/6)+dxy

The water temperature will remain constant at T=30.0

The Jacobian for the critical point (0,0) is:
J_1 =

    -1967/1052   0
         0   -43/2667

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 =

     861/412   -397/592
      11/24996   63/4262

The eigenvalues of the Jacobian above are:
    1375/658
     164/10989

>>

$x' = Rx(1-x/15)-cxy$

$y' = ry(1-y/6)+dxy$