Practise problems for dynamical systems

1. $\dot{x} = x(150 - x - 3y)$
   $\dot{y} = y(100 - 2x - y)$

2. $\dot{x} = x(40 - x - y)$
   $\dot{y} = y(2500 - x^2 - y^2)$

3. $\dot{x} = x(480 - 8x - 6y)$
   $\dot{y} = y(2500 - x^2 - y^2)$

4. $\dot{x} = x(2 - x - y)$
   $\dot{y} = y(y - x)$

5. $\dot{x} = x(x - 1)$
   $\dot{y} = y(x^2 - y)$