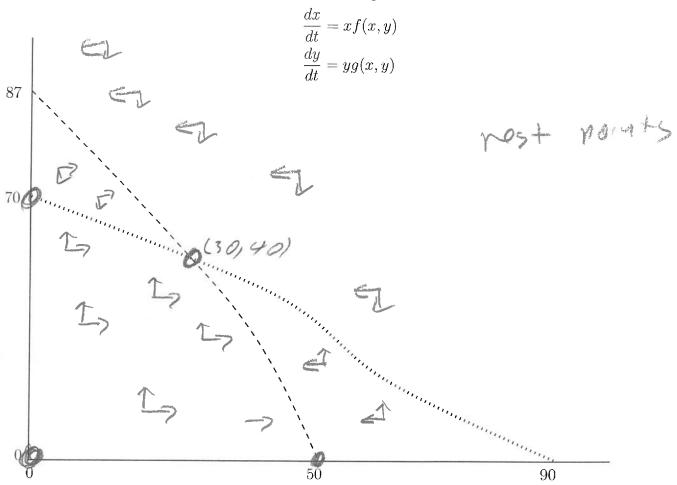
Name:______

You must show your work to get full credit.

The figure below is the phase space for the rate equations



----- Curve where f(x,y) = 0 and f(x,y) > 0 below this curve.

Curve where g(x,y) = 0 and g(x,y) > 0 below this curve.

1. What are the rest points?

Rest points are: (0,0), (50,0), (0,70), (30,40)

- 2. Put in arrows showing the direction of the motion of points in each of the regions.
- 3. Which of the rest points are stable?

Stable points are: (30, 40)

4. If there is no y species present, that what would be the size of the stable x population?

Population size is: 50