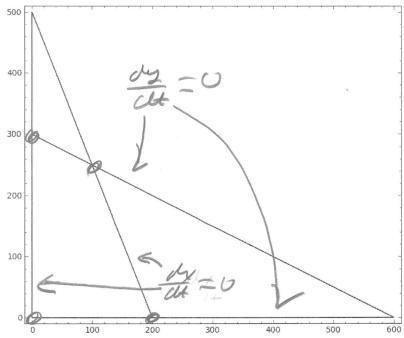
Quiz # 24

Name: Ney

You must show your work to get full credit.

Consider the system of differential equations

$$\frac{dx}{dt} = .4x(200 - x - .4y)$$
$$\frac{dy}{dt} = .3y(300 - .5x - y)$$



- 1. Label the two lines where $\frac{dx}{dt} = 0$.
- 2. Label the two lines where $\frac{dy}{dt} = 0$.
- 3. What are the equilibrium points? That is what are the points where both $\frac{dx}{dt} = 0$ and $\frac{dy}{dt} = 0$. (The answers are points, that is ordered pairs (x, y).)