Quiz # 26

Name: Kex

You must show your work to get full credit.

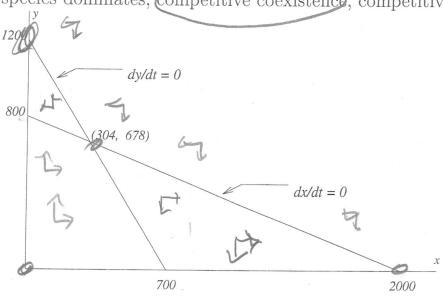
The problems where concern a system of competing species governed by the equations

$$\frac{dx}{dt} = r_1 x \left(\frac{K_1 - x - \alpha y}{K_1}\right) \qquad \frac{dy}{dt} = r_2 x \left(\frac{K_2 - \beta x - y}{K_2}\right)$$

$$800 \qquad 304, 678) \qquad dy/dt = 0$$

$$700 \qquad 2000$$

1. For the graph above, What is x carrying capacity? 700, what is y carrying capacity? 800 What are stable equilibrium points? 190,



2. For the graph above, What is x carrying capacity? 2000 what is y carrying capacity? 2000 What are stable equilibrium points? 2000 Circle the ones that applies: x species dominates, x species dominates, competitive coexistence, competitive exclusion.