

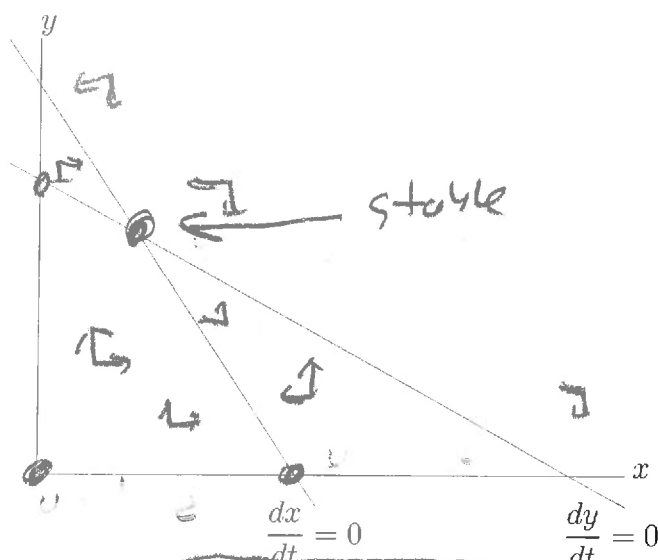
You must show your work to get full credit.

The following are phase diagrams for the equations

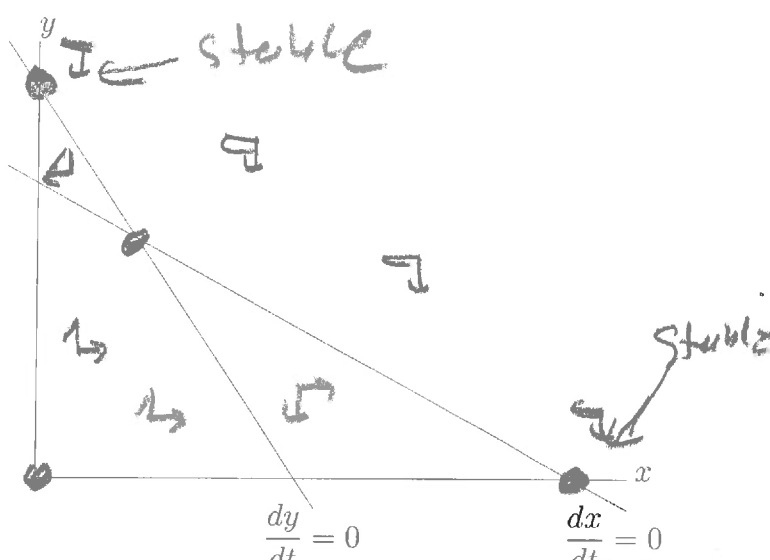
$$\frac{dx}{dt} = r_1 \left(\frac{K_1 - x - \alpha y}{K_1} \right)$$

$$\frac{dy}{dt} = r_2 \left(\frac{K_2 - \beta x - y}{K_2} \right)$$

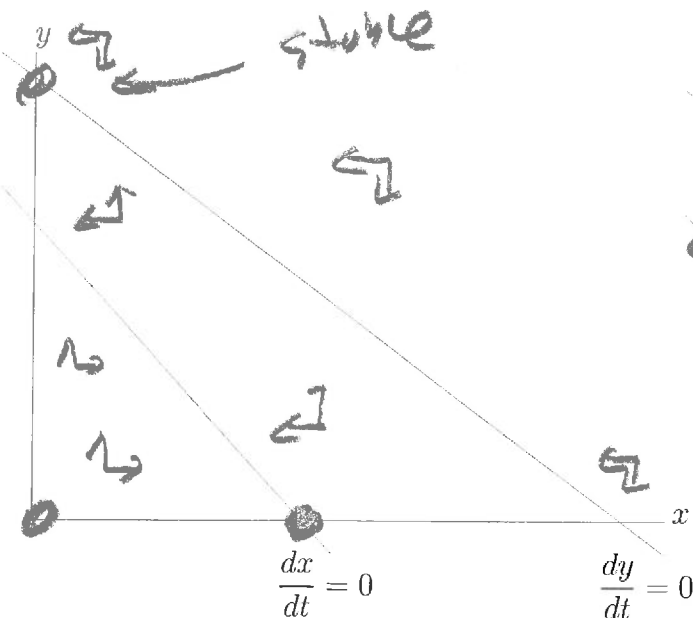
of competing species. In each of the figure label the rest points (or equilibrium points) with a large filled in circle ● and label which are stable. Also put in some arrows in each region showing which way the points (x, y) are moving.



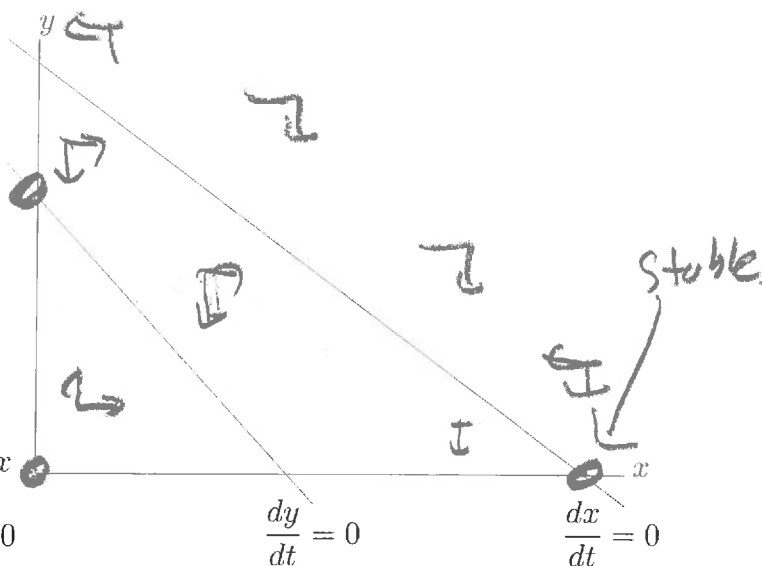
Circle one: Competitive coexistence, competitive exclusion, x -species dominates, or y -species dominates



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