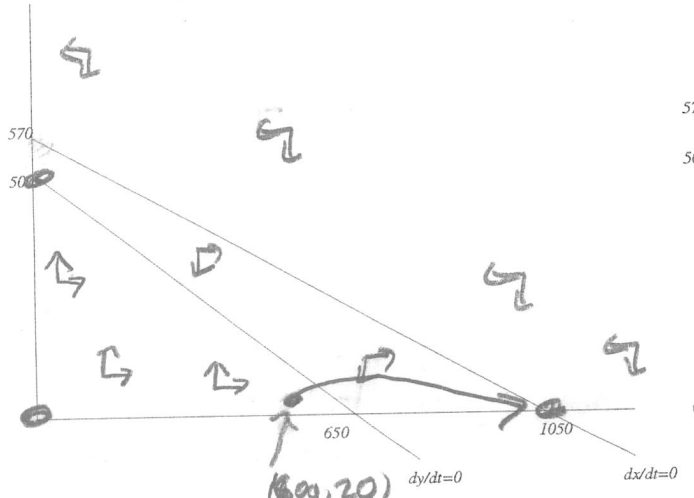
Mathematics 172

Quiz 30

● = Equilibrium point

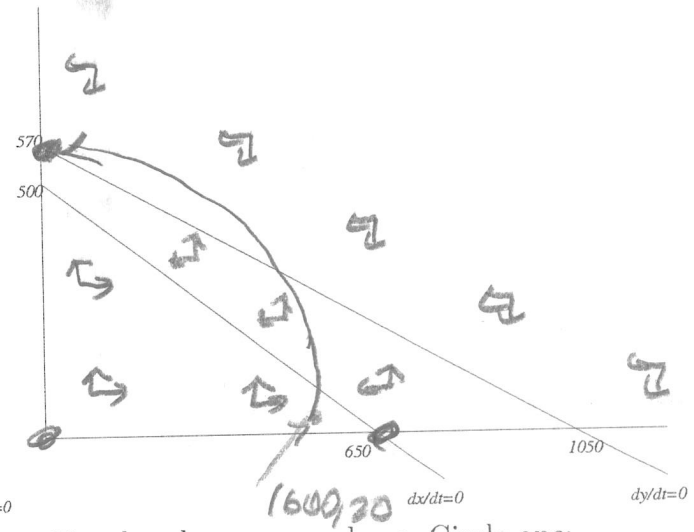
Name: Key



For the phase space above, Circle one:
x dominates, y dominates,
competitive coexistence, competitive exclusion.

If $x(0) = 600$, $y(0) = 20$ then
$x(100) \approx$ 1050, $y(100) \approx$ 0

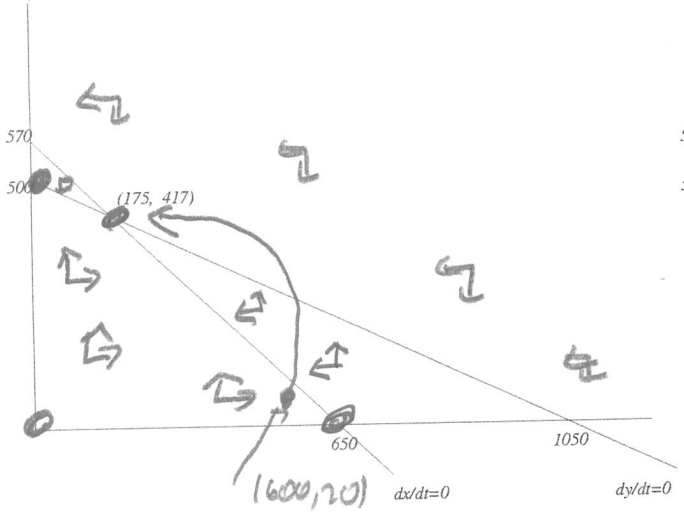
If $x(0) = 600$, $y(0) = 0$ then
$x(100) \approx$ 1050, $y(100) \approx$ 0



For the phase space above, Circle one:
x dominates, y dominates,
competitive coexistence, competitive exclusion.

If $x(0) = 600$, $y(0) = 20$ then
$x(100) \approx$ 0, $y(100) \approx$ 570

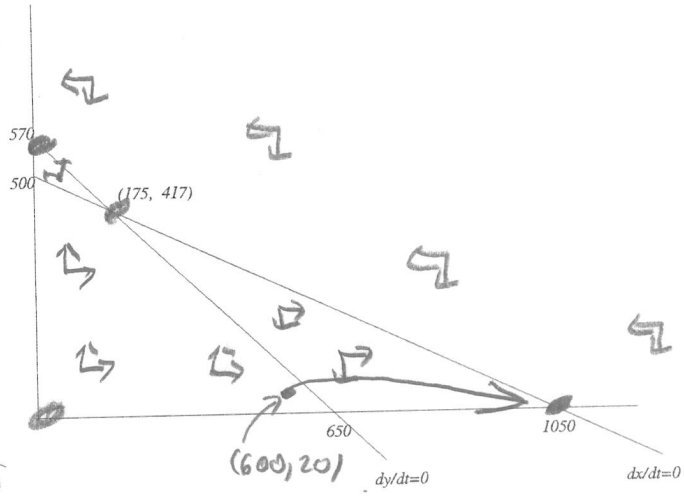
If $x(0) = 600$, $y(0) = 0$ then
$x(100) \approx$ 650, $y(100) \approx$ 0



For the phase space above, Circle one:
x dominates, y dominates,
competitive coexistence, competitive exclusion.

If $x(0) = 600$, $y(0) = 20$ then
$x(100) \approx$ 175, $y(100) \approx$ 417

If $x(0) = 0$, $y(0) = 600$ then
$x(100) \approx$ 0, $y(100) \approx$ 500



For the phase space above, Circle one:
x dominates, y dominates,
competitive coexistence, competitive exclusion.

If $x(0) = 600$, $y(0) = 20$ then
$x(100) \approx$ 1050, $y(100) \approx$ 0

If $x(0) = 0$, $y(0) = 600$ then
$x(100) \approx$ 0, $y(100) \approx$ 570