

Predator-prey system

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5:06 AM

$$\frac{dx}{dt} = x(1 - .005y)$$

$$\frac{dy}{dt} = y(-.75 + .00025x)$$

$(x, y) = (0, 0)$ is a critical pt.

To find other one:

$$0 = x(1 - .005y) \Rightarrow y = 200$$

$$0 = y(-.75 + .00025x) \Rightarrow x = 3000$$

Our other CP is $(3000, 200)$