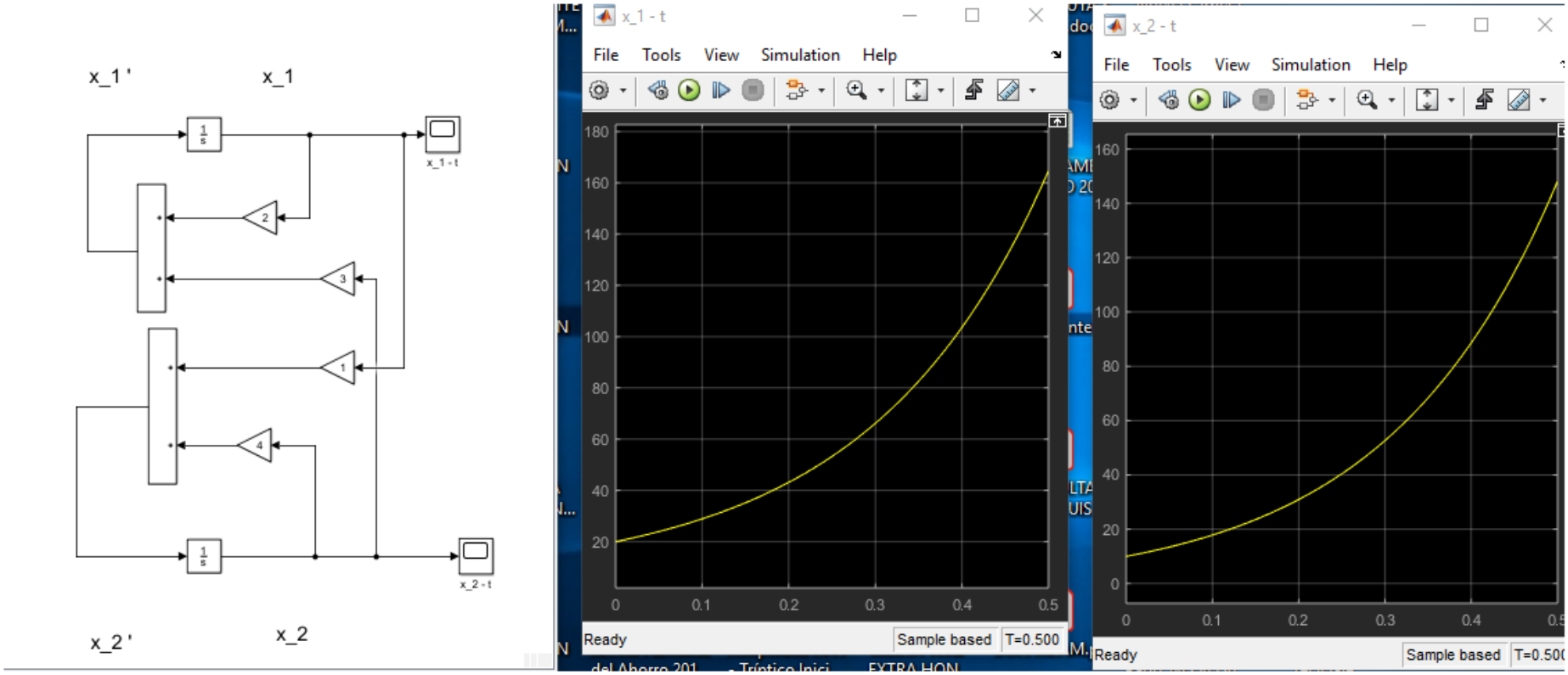
$$\frac{dx_1}{dt} = 2x_1 + 3x_2 \qquad x_1(0) = 20$$

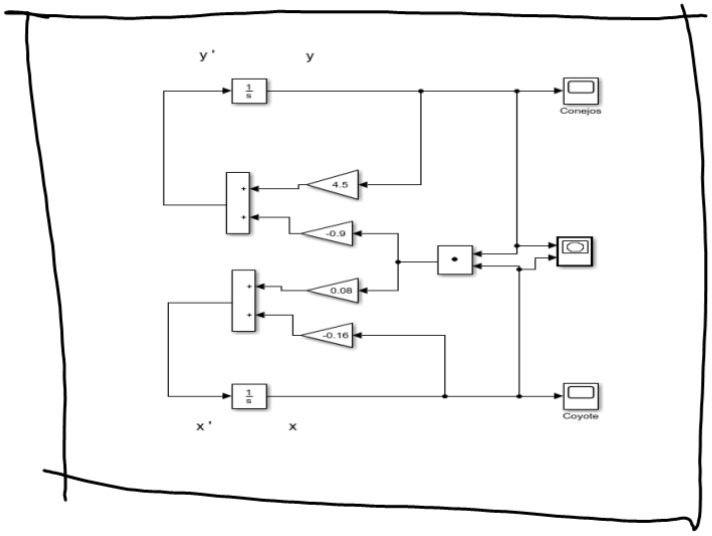
$$\frac{dx_2}{dt} = x_1 + 4x_2 \qquad x_2(0) = 10$$

$$x_1(t) = \frac{25}{2} e^{5t} + \frac{15}{2} e^{t}$$

$$x_2(t) = \frac{25}{2} e^{5t} - \frac{5}{2} e^{t}$$

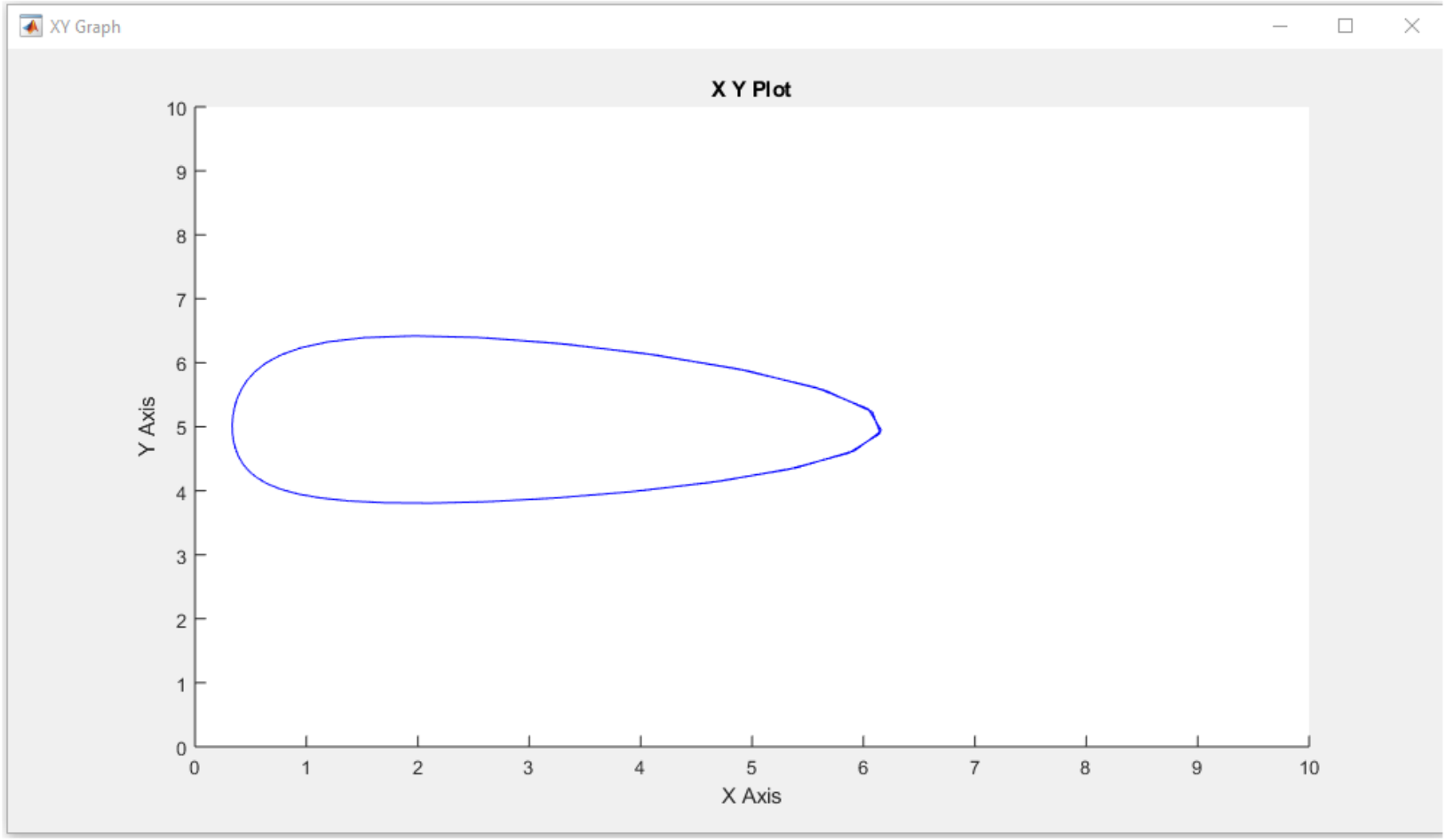

x_1 '
x_1
x_1 - t
x_2 - t
x_2 '
x_2
x_1 - t
File Tools View Simulation Help
Ready
Sample based
T=0.500
x_2 - t
File Tools View Simulation Help
Ready
Sample based

PRESA - DEPREDADOR



$$\frac{dx}{dt} = -0.16x + 0.08xy \quad \Big\} \; x \rightarrow \text{coyote}$$

$$\frac{dy}{dt} = 4.5y - 0.9xy \quad \Big\} \; y \rightarrow \text{conejo}$$


XY Graph
X Y Plot
Y Axis
X Axis
0
1
2
3
4
5
6
7
8
9
10