GRAPHING THE PREDATOR-PREY RELATIONSHIP

Name:_____

Part 1: The Meaning & Predicting:

Give a description for each of the following:

Predator =

Prey =

Make predictions for the following situations:

If the number of predators increases. the prey will _____because: ⟨··⟩

If the number of predators decreases, the prey will _____ because:

If the number of prey increases, the predators will _____because:

If the number of prey decreases, the predators will _____because:
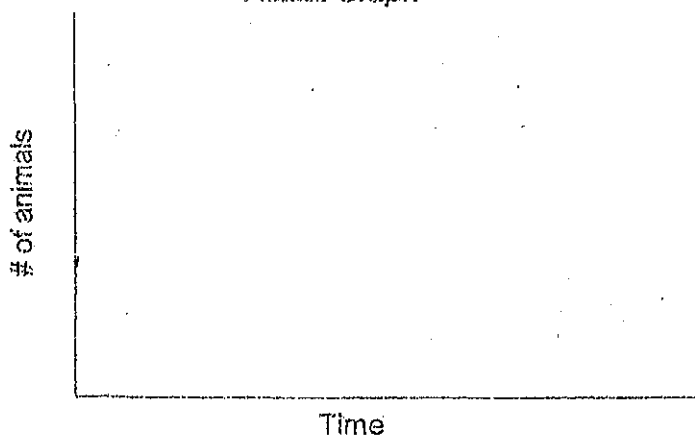
Part 2: The Math:

Predict what a predator-prey graph will look like (Hint: use two lines; one for each animal). Revise your prediction, if necessary

My Prediction

# of animals | Time

Actual Graph

# of animals | Time
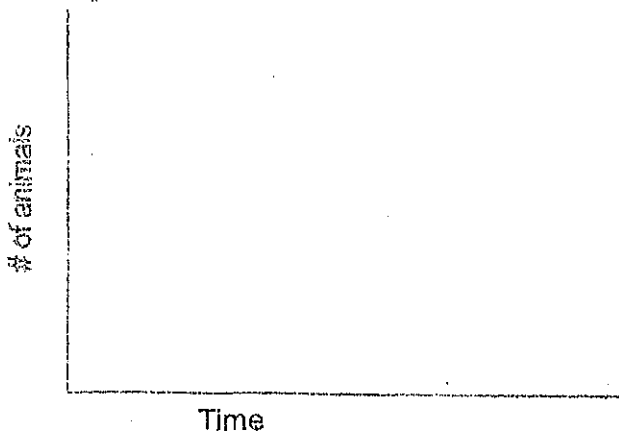
Part 3: Making Connections

*How do these graphs compare to your "Oh Deer" graph? Are there similarities? Differences? Explain.

*How do fluctuations (ups and downs) in the predator and prey numbers affect the food chain?

*Can the predator and prey numbers be high at the same time? Explain.

*Can the predator and prey numbers be low at the same time? Explain.

Part 5: Putting it all together:
Make a conclusion!