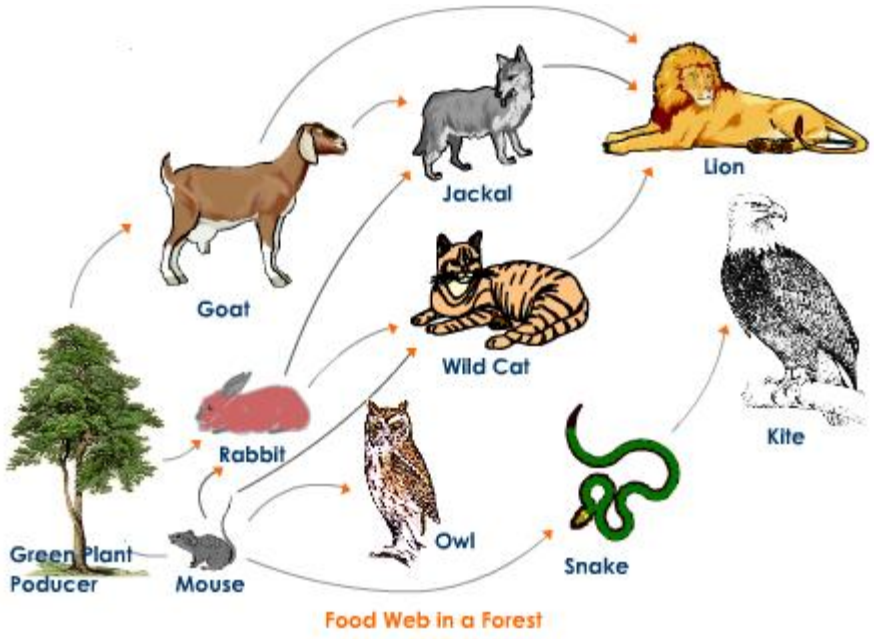
MiSP Predator Prey Assessment

Name _____ Date_____

FOOD WEB



Notes → **arrows**: eaten eaten by

Identify an example of an organism from the food web above that obtains food in each of the following ways:

1. Herbivore _____

2. Carnivore _____

3. A predator and one (1) of its prey

   A. Predator _____

   B. Prey _____

4. Is there an omnivore in this food web? If yes, what is the animal? If no, why not?

_____

_____

_____

5. Write a food chain from the food web above. Include a producer and at least two consumers.

6. Two species on the planet Zork are the torgu and roppozoid. One is a predator and the other is its prey. In a particular ecosystem on Zork, there are 33 roppozoids and 311 torgu.
   a. Which animal is the predator? _____

   b. Explain your answer in a above.

_____

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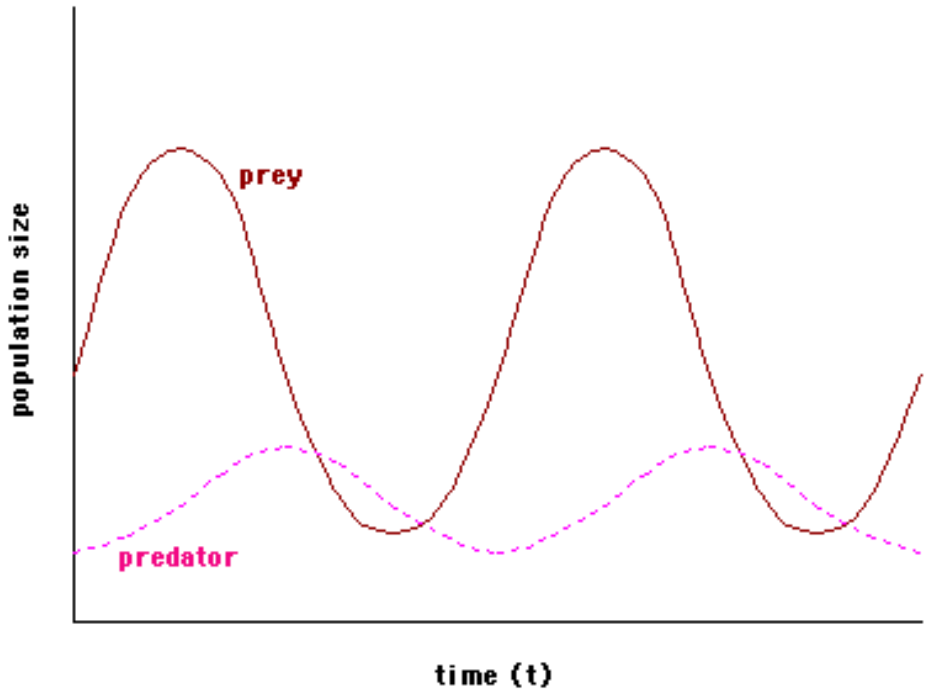
Use the predator-prey population graph to answers questions 7-10.



7. Why does the predator population decrease twice on this graph?

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8. Why do the peaks of the predator and prey populations occur at different times?

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9. If the graph continued to the right, what would you predict would happen to the predator population? Explain your answer.

_____

_____

_____

10. Mark the graph above with an '**X**' on a section of one of the two curves where the unit rate of change is a negative number.

11a. One of the line segments in the prey population curve has a unit rate of change of -400 animals per year. The y intercept of that line segment is 4,400. What is the formula for that line segment?

11b. A point on the line in 11a indicates a population of 3600. How long in years <u>from that point</u> will it take for the population to be zero <u>if the line continued</u>?