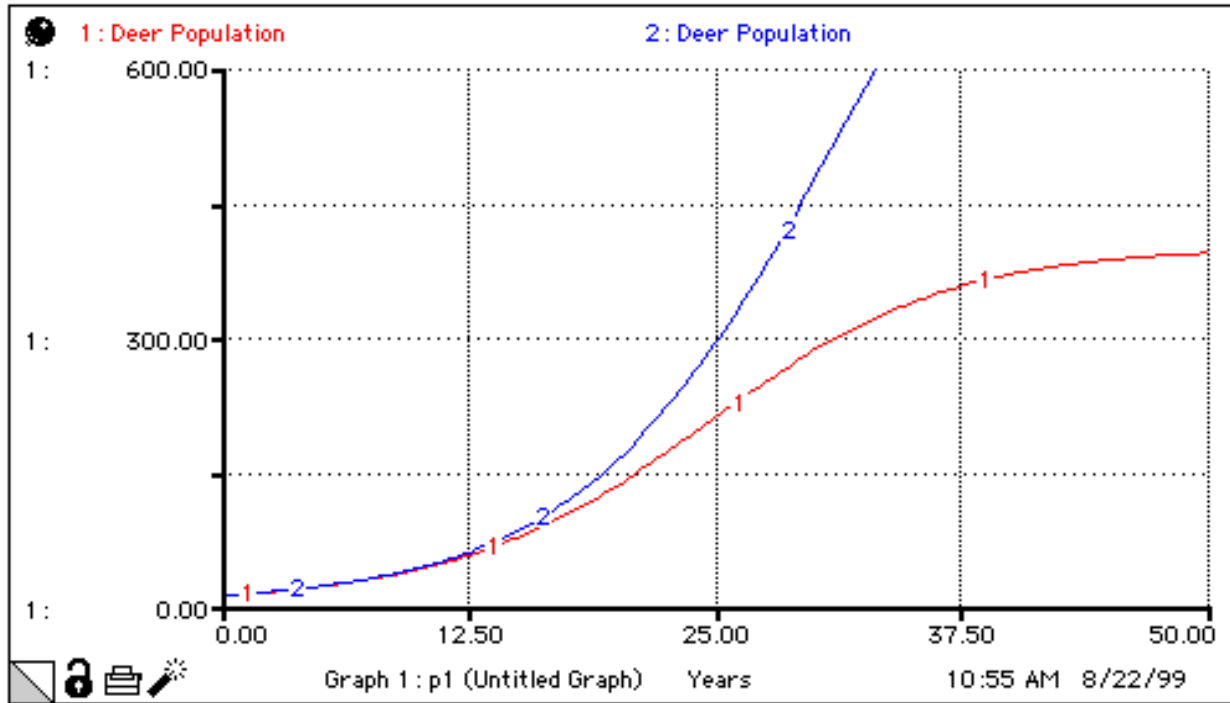## DEER POPULATION

1. The curves on the graph below represent two different deer populations, one living in a 200 square mile area, the other living in a 500 square mile area.

- Describe and interpret each of the curves with regard to the rate of growth of the population.
- Describe, in general, what is happening to each deer population. What factors could account for the different results as shown by the graph?

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Continue your answer on the back.

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2. Computer models are tools for learning about the things they are meant to resemble. A model's usefulness in understanding a real world situation can be determined by examining the assumptions underlying the model and by comparing its output to actual observations in the real world.

- Determine the usefulness of the deer population model by describing at least two similarities between the model and real world outcomes. Give specific details to support your answer.
- Describe at least one limitation of the deer population model with respect to its ability to replicate real world behavior.

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