Practice 8-6

Solve by Graphing

A giraffe was 1 ft tall at birth, 7 ft tall at the age of 4, and $11\frac{1}{2}$ ft tall at the age of 7.

Giraffe Height

1. Use the data to make a (age, height) scatter plot.

2. Draw a trend line.

3. Write an equation for your trend line in slope-intercept form.

   _____

4. Use your equation to find the following information.
   a. the giraffe's height at the age of 5

   _____

   b. the age at which the giraffe was 16 ft tall

   _____

A hippopotamus weighed 700 lb at the age of 1 and 1,900 lb at the age of 3, and 2,500 lb at the age of 4.
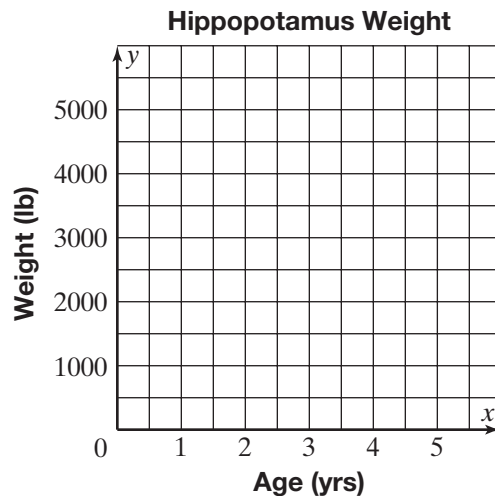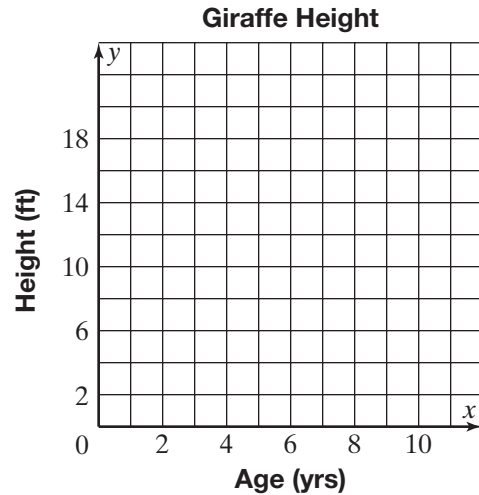
Hippopotamus Weight

5. Use the data to make a (age, weight) scatter plot.

6. Draw a trend line.

7. Write an equation for your trend line.

   _____

8. Use the equation to predict the following information.

   a. the hippo's weight at the age of 8

   _____

   b. the age at which the hippo weighed 7,900 lb

   _____

9. Can this equation be used to predict the hippo's weight at any age? Explain.

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