

Name _____

7-6B Lesson Master**Questions on SPUR Objectives**

See pages 452–455 for objectives.

PROPERTIES Objective C

1. Suppose a function f consists only of the ordered pairs $(0, 1)$, $(1, -2)$, $(2, 4)$, $(3, -8)$, $(4, 16)$, and $(5, -32)$.
 - a. What is the domain of f ? _____
 - b. What is the range of f ? _____
 - c. Write a formula for $f(x)$ in terms of x . _____

2. Consider the function J described by the equation $J(x) = -5x + 2$.
 - a. Find $J(2)$. _____
 - b. Find $J(-3.2)$. _____
 - c. *True or False.* $J(4) < J(5)$ _____

3. If $g(x) = 2 \cdot 1.3^x$, find $g(-3.3)$. Round to the nearest hundredth. _____

4. Suppose $L(x) = -2x - 3$.
 - a. Calculate $L(4)$. _____
 - b. Calculate $L(2)$. _____
 - c. Evaluate $\frac{L(4) - L(2)}{4 - 2}$. _____
 - d. What have you calculated in Part c? _____

5. The table below shows the centimeters of rainfall in a given town on day x of the month.

x	$R(x)$
1	2
2	4
3	0
4	10

 - a. What is the value of $R(2)$? _____
 - b. On what day did they have 10 centimeters of rainfall? _____
 - c. Find x if $R(x) = 2$. _____

Name _____

7-6B

page 2

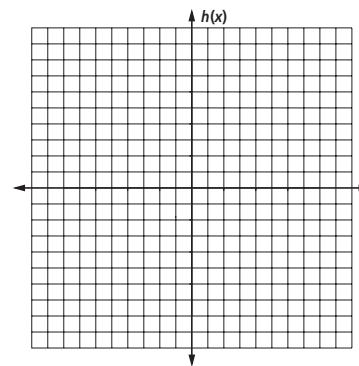
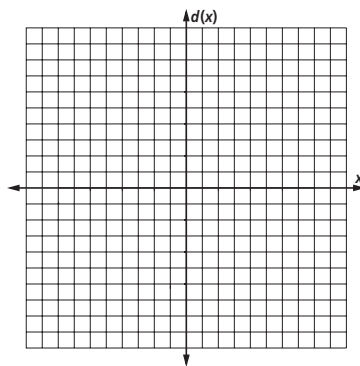
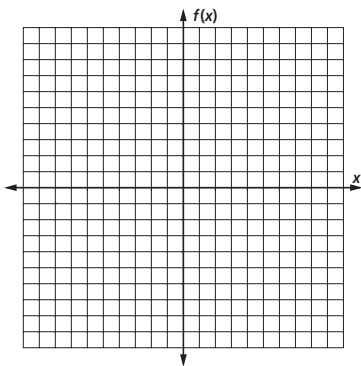
REPRESENTATIONS Objective I

In 6-8, graph the function on the given domain.

6. $f(x) = -x^2 + 3, -1 \leq x \leq 3$

7. $d(x) = 0.6 \cdot 2^x, 0 \leq x \leq 4$

8. $h(x) = 2x^2 - 5, -2 \leq x \leq 2$

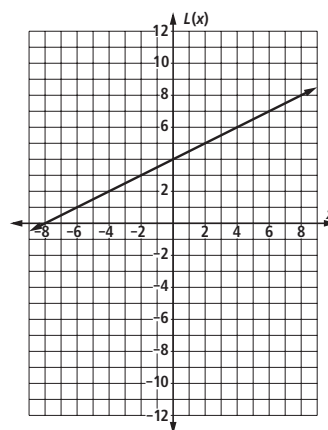


9. Use the graph of a linear function L .

a. Find $L(-4)$.

b. *True or False.* $L(-2) = 5$

c. Give a formula for $L(x)$ in terms of x .



10. Use the graph of an exponential function E .

a. Find $E(0)$.

b. Find $E(1)$.

c. Give a formula for $E(x)$ in terms of x .

