

Name _____

1-2B Lesson Master

Questions on SPUR Objectives

See Student Edition pages 66–69 for objectives.

VOCABULARY

- In the formula $p = 150(2)^n$, p is a function of n .
 - Identify the dependent variable. _____
 - Identify the independent variable. _____
- Tell if each statement is *true* or *false*.
 - Every function is a relation. _____
 - Every relation is a function. _____

PROPERTIES Objective G

In 3 and 4, determine whether the relation is a function. Write *yes* or *no*.

3. $\{(-3, 6), (-2, 18), (3, 12), (-2, -18)\}$

4. $\{(6, 6), (3, -1), (17, 0), (-4, 0)\}$

5.

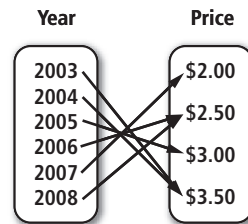
j	8	12	-7	0	6
k	3	5	22	5	0

6.

w	4.1	4.1	4.1	4.1	4.1
s	-6.3	50	29	-11	5.4

- Is j a function of k ? _____
 - Is k a function of j ? _____
- Is w a function of s ? _____
 - Is s a function of w ? _____

7. The diagram at the right shows the price of a DVD rental at DeVeer's Movies for each of six years.



- a. Is *price* a function of *year*? Explain.
- _____
- _____

- b. Is *year* a function of *price*?
- _____
- _____

Name _____

1-2B

page 2

8. You launch a bottle rocket from a rock 5 feet above the ground. The table at the right gives its height above the ground at various times during the flight.

Time (seconds)	0	1.5	3.0	4.5	6.0	7.5
Height (feet)	5	149	221	221	149	5

- a. Is *height* a function of *time*? _____ b. Is *time* a function of *height*? _____

9. A painter painted five garages. The table shows how much money the painter earned each time..

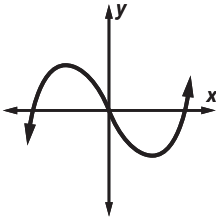
Hours	6	7	5	6	4
Income	\$108	\$126	\$90	\$108	\$72

- a. Is *income* a function of *hours*? _____ b. Is *hours* a function of *income*? _____

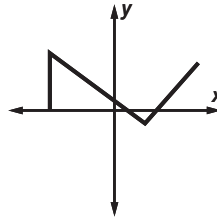
10. The formula $V = \frac{2}{3}\pi r^3$ gives the volume of a hemisphere with radius r . Is V a function of r ? Explain.

In 11–13, determine whether the graph represents a function. Write *yes* or *no*.

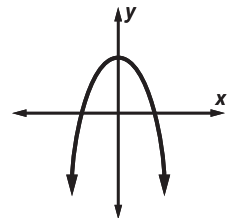
11.



12.



13.



14. The graph at the right shows the number of parks in 12 cities. The population is on the x -axis and the number of parks is on the y -axis. Is the relation a function? Explain.

