

Name _____

7-5B 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 $(-2, 5)$, $(-1, 2)$, $(5, 2)$, $(6, 7)$, and $(8, 25)$.

a. What is the domain of f ? _____

b. What is the range of f ? _____

2. *Multiple Choice.* Which list does not describe a function? _____

A

x	y
-1	2
0	2
1	3

B

x	y
-1	2
-1	3
0	1

C

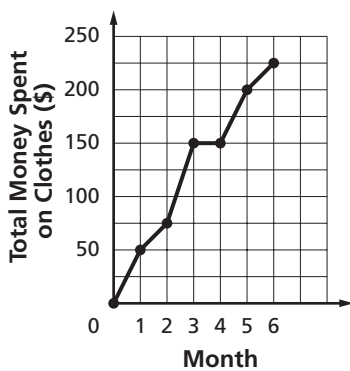
x	y
-1	0
0	0
1	1

D

x	y
-1	2
0	3
1	4

REPRESENTATIONS Objective I

3. The graph below is of a function showing the dollars spent on clothes over a period of 6 months.



a. Find the value of the function when $x = 5$. _____

b. Find the value of the function when $x = 3.5$. _____

c. Find x when the function is \$50. _____

d. Use inequalities to describe the domain and range of this function.

Name _____

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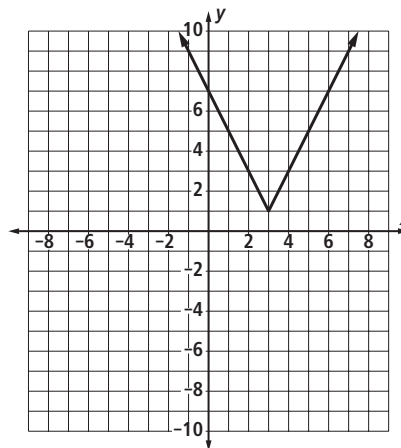
page 2

4. The graph of a function is shown at the right.

a. From the graph, determine the domain of the function.

b. From the graph, determine the range of the function.

c. Give the range that corresponds to a domain of $\{x : x < 2\}$.

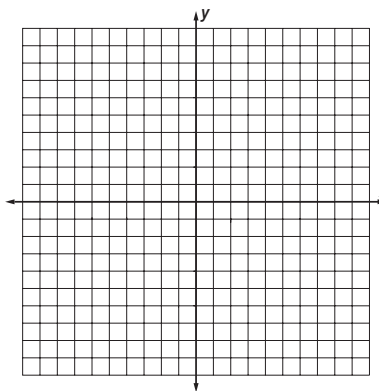


5. Consider the function described by $y = x^2 - 2$.

a. Graph the function on the grid at the right.

b. What is the domain of the function?

c. What is the range of the function?



6. The function $y = -2 \cdot 1.5^x$ is graphed at the right.

a. *True or False.* 0 is in the range of this function.

b. What is the value of this function when $x = 0$?

c. What is the domain of the function that is graphed?

d. Suppose x can be any negative integer or zero. What is the least possible value of y ?

