

Name:

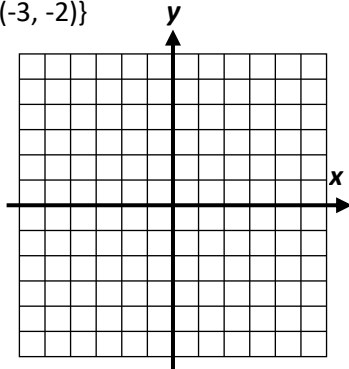
Date:

Period:

Express each relation as a table and a graph. Then state the domain and range in order from smallest to largest.

1.  $\{(-4, 3), (2, 1), (0, 3), (-3, -2)\}$

x	y

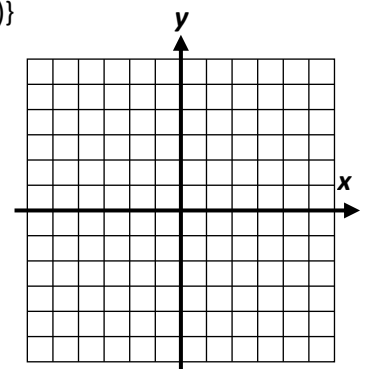


D: \_\_\_\_\_

R: \_\_\_\_\_

2.  $\{(5, 3), (-4, 1), (2, -5), (3, -4)\}$

x	y

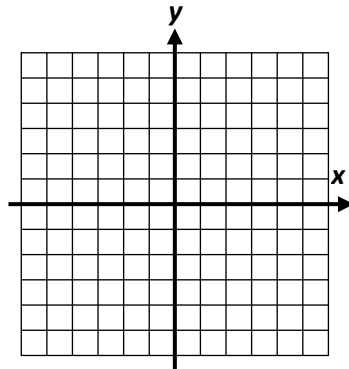


D: \_\_\_\_\_

R: \_\_\_\_\_

3.  $\{(-1.5, 3.5), (2.5, -1.5), (3, -1), (-1.5, -3.5)\}$

x	y

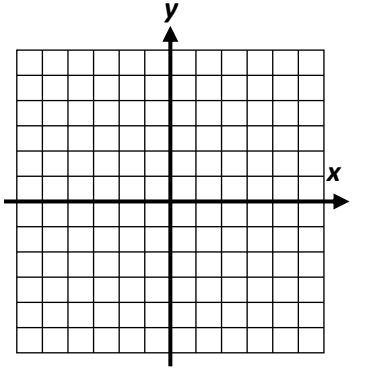


D: \_\_\_\_\_

R: \_\_\_\_\_

4.  $\{(2, 3), (2, -3), (-3, -5), (-3, 4)\}$

x	y



D: \_\_\_\_\_

R: \_\_\_\_\_

5. Determine if each statement about the relation  $\{(3, 7), (5, 1), (6, 4), (2, 5)\}$  is true or false.

- a. The domain of the relation is  $\{2, 3, 5, 6\}$
- b. The range of the relation is  $\{1, 4, 5, 7\}$
- c. The value 5 is a member of both the domain and the range.
- d. This is not a function because the number 5 repeats.

- True       False
- True       False
- True       False
- True       False

6. Make a table and a mapping diagram for the relation

$\{(0, -2), (1, -2), (1, 3), (1, 8)\}$

x				
y				



Is this relation a function? Explain.

\_\_\_\_\_

7. Make a table and a mapping diagram for the relation

$\{(-1, -3), (1, -1), (0, -2), (2, 0)\}$

x				
y				

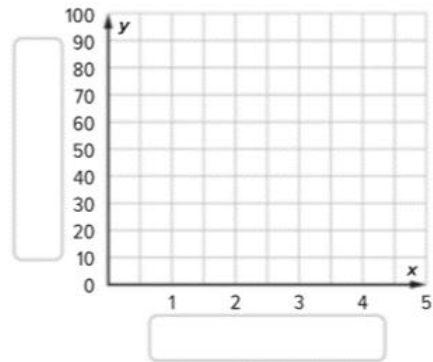


Is this relation a function? Explain.

\_\_\_\_\_

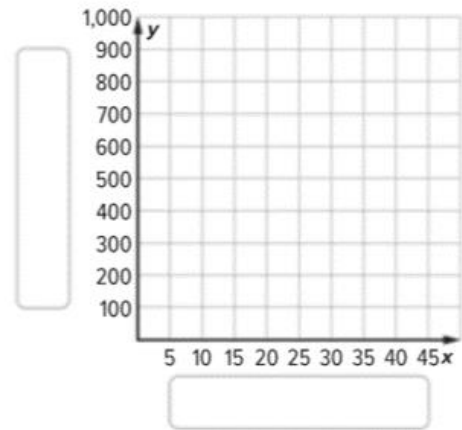
8. At a vacation resort, you can rent a personal watercraft for \$20 per hour. Make a table of ordered pairs in which the x-coordinate represents the # of hours and the y-coordinate represents the total cost for 1, 2, 3, or 4 hours. Then graph the ordered pairs.

x	y



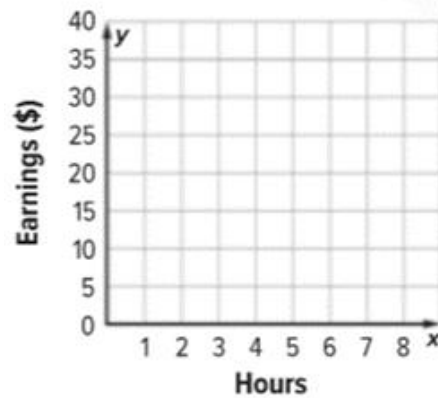
9. A candy company produces 30 boxes of candy per hour. Make a table of ordered pairs in which the x-coordinate represents the # of hours and the y-coordinate represents the number of boxes of candy in 5, 10, 15, and 20 hours. Then graph the ordered pairs.

x	y



10. Josiah earns \$7 an hour for washing cars as a summer job. Complete the table of ordered pairs showing his total earnings for several hours. Then express the relation as a graph.

Hours Worked (x)	Total Earned (y)
1	
2	
3	
4	
5	



How much would Josiah earn for 12 hours of washing cars? \_\_\_\_\_