Introduction to Functions – Day 4   Name _____
Assignment   Date _____ Period _____
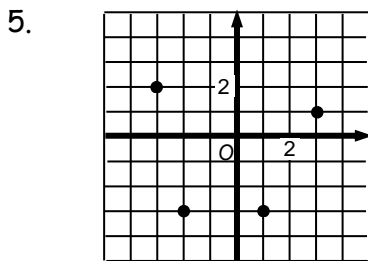
Identify the domain and range of each situation. Then determine if the situation represents a function.

1.   {(2, 5), (2, –3), (5, 7)}   2.   {(8, 5), (6, 5), (7, 2)}

        domain _____   domain _____

        range _____   range _____

        function? _____   function? _____

3.   {(6, 4), (8, –4), (9, 10)}   4.   {(9, 9), (9, 8), (9, 7)}

        domain _____   domain _____

        range _____   range _____

        function? _____   function? _____

5.   6.

        domain _____   domain _____

        range _____   range _____
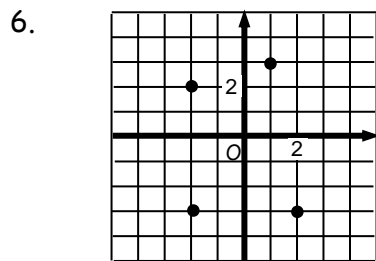
        function? _____   function? _____

7. Justin, Mr. Quarterback, collected data on the average number of passing yards he made to each of his receivers in one football game. Determine the domain and range of the data and if it represents a functional relationship.

| Receiver	Galindo	Hemphill	Harle	Carrillo	Segovia	Jenkins
Yards	30	42	5	12	10	12

        domain _____

        range _____   functional relationship? _____

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8. The heights and shoe sizes of several people are recorded in the table below. Determine the domain and range of the data and if it represents a functional relationship.

Height	5'10"	5'11"	5'9"	6'1"	5'11"	6'0"
Shoe Size	9	9.5	8.5	12	10	11.5

domain _____

range _____   functional relationship? _____

9. What is the range of the function shown in the graph?
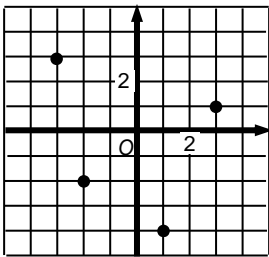
10. How is the following set of ordered pairs related?

$$\{(0, 2), (1, -1), (2, -4), (3, -7), (4, -10)\}$$

A. The first number is multiplied by –2 to obtain the second number.
B. The second number is obtained by multiplying the first number by 2 and then subtracting 1.
C. The second number is obtained by multiplying the first number by –3 and then adding 2.
D. The second number is obtained by squaring the first number and then subtracting 3.

11. Which of the following points, when deleted from the coordinate grid, will result in a relationship that represents a function?