

Domain: x -values (read left or right)
 Range: y -values (read bottom to top)

Math 10C | 1
 Chapter 5 Relations and Functions

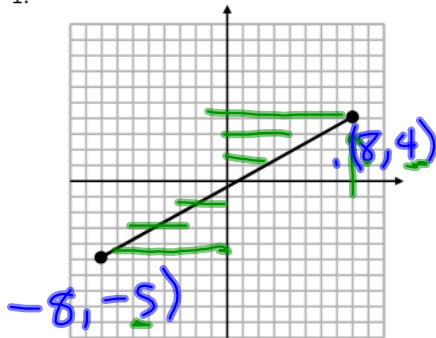
$>$ greater than
 $<$ less than

Domain and Range Practice



State the domain and range of the following graphs in proper mathematical statements.

1.

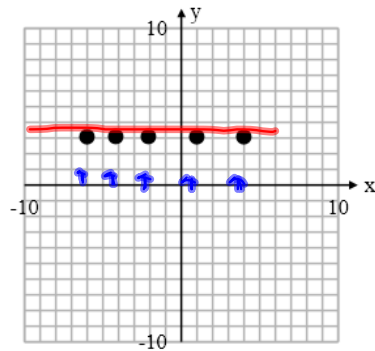


Function

| | |
|-----|-----|
| x | y |
| -8 | -5 |
| 8 | 4 |

$D: \{-8 \leq x \leq 8\}$
 $R: \{-5 \leq y \leq 4\}$

2.

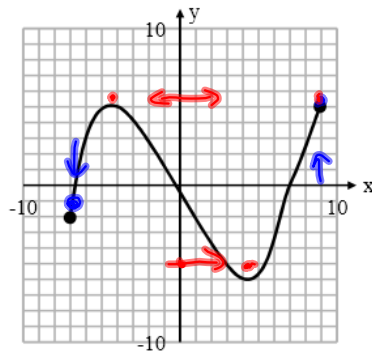


Function

| | |
|-----|-----|
| x | y |
| -6 | 3 |
| -4 | 3 |
| -2 | 3 |
| 1 | 3 |
| 4 | 3 |

$D: \{-6, -4, -2, 1, 4\}$
 $R: \{3\}$

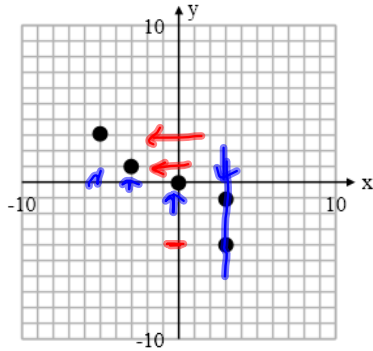
3.



Function

$D: \{-7 \leq x \leq 9\}$
 $R: \{-6 \leq y \leq 5\}$

4.

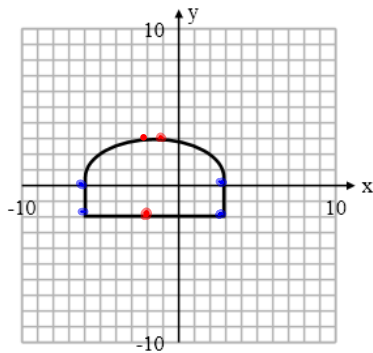


Not a Function

$$D: \{-5, -3, 0, 3, 3\}$$

$$R: \{-4, -1, 0, 1, 3\}$$

5.

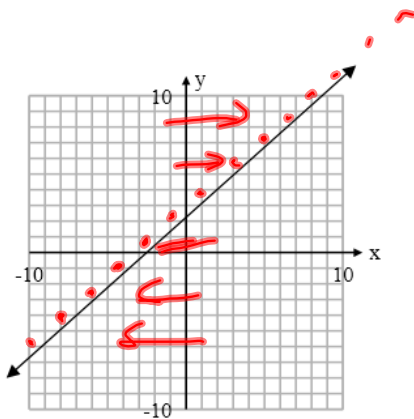


Not a Function

$$D: \{-6 \leq x \leq 3\}$$

$$R: \{-2 \leq y \leq 3\}$$

6.



\mathbb{C} - element

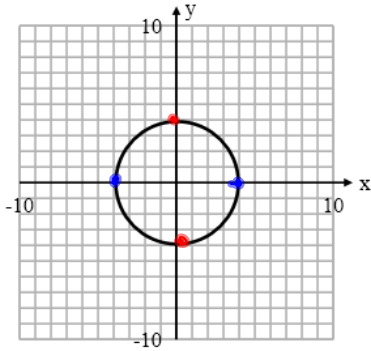
\mathbb{R} - real numbers

Function

$$D: \{x \in \mathbb{R}\}$$

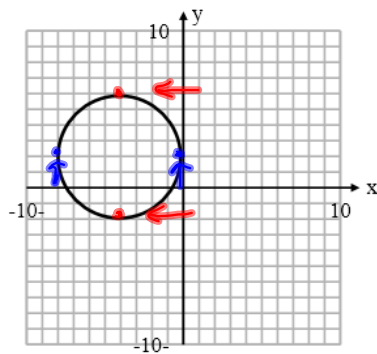
$$R: \{y \in \mathbb{R}\}$$

7.



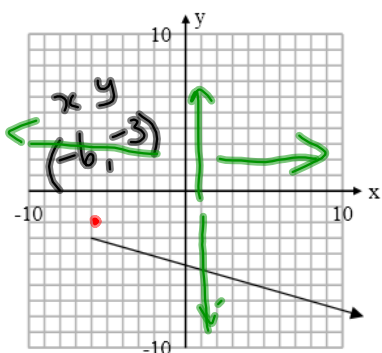
Not a Function
 $D: \{-4 \leq x \leq 4\}$
 left to right
 $R: \{-4 \leq y \leq 4\}$
 bottom to top

8.



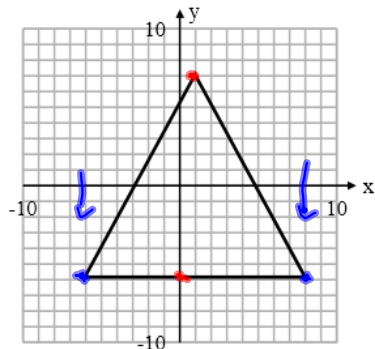
Not a Function
 $D: \{-8 \leq x \leq 0\}$
 $R: \{-2 \leq y \leq 6\}$

9.



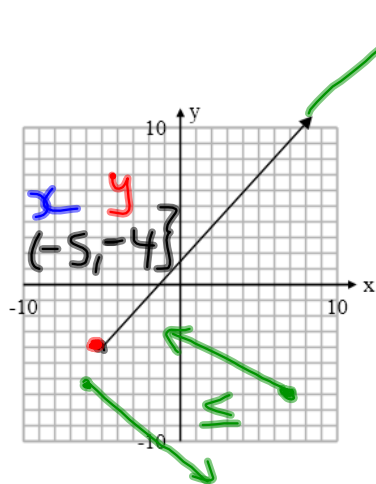
Function
 $D: \{x \geq -6\}$
 $R: \{y \leq -3\}$

10.



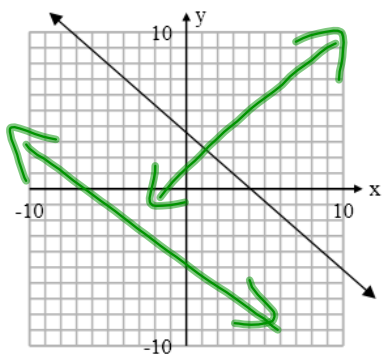
Not a Function
 $D: \{-6 \leq x \leq 8\}$
 $R: \{-6 \leq y \leq 7\}$

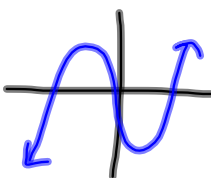
11.



Function \geq greater
 \leq less
 $D: \{x \geq -5\}$
 $R: \{y \geq -4\}$

12.



Function 
 $D: \{x \in \mathbb{R}\}$
 $R: \{y \in \mathbb{R}\}$