

## Today's Learning Goal(s):

By the end of the class, I will be able to:

- a) use correct notation to express the domain and range of any relation.

*Yesterday's homework sheet on next screen.*

*Extra Domain and Range homework sheet today.*

*Let's also look at last day's Desmos activity.*

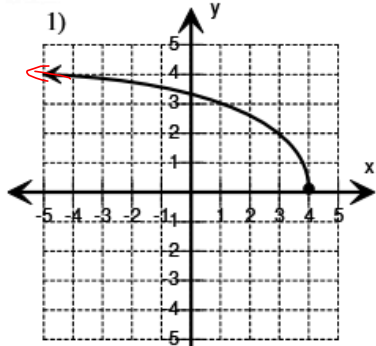
Name: \_\_\_\_\_

Score: \_\_\_\_\_

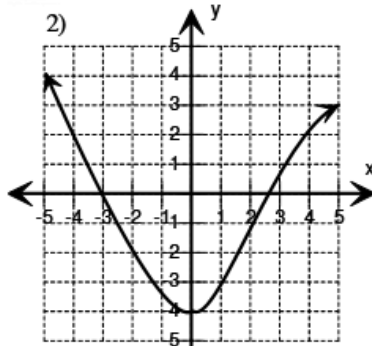
**Domain and Range**

Find the Domain and Range for each graph.

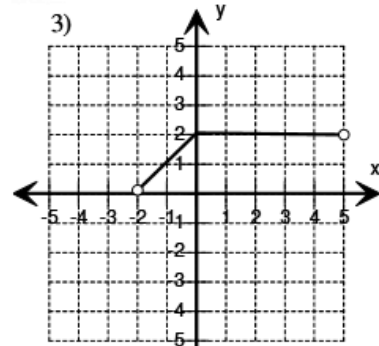
*✓✓✓*



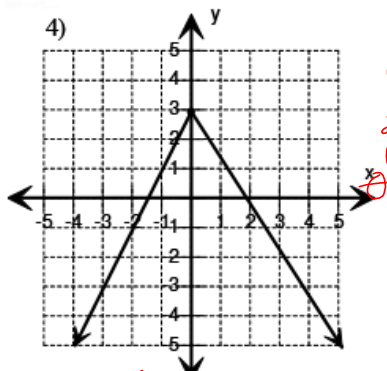
Domain:  $\{x \in \mathbb{R} \mid x \leq 4\}$   
 Range:  $\{y \in \mathbb{R} \mid y \geq 0\}$



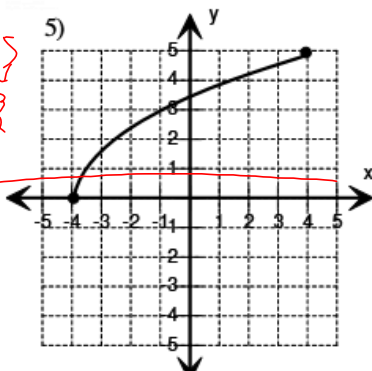
Domain:  $\{x \in \mathbb{R}\}$   
 Range:  $\{y \in \mathbb{R} \mid y \geq -4\}$



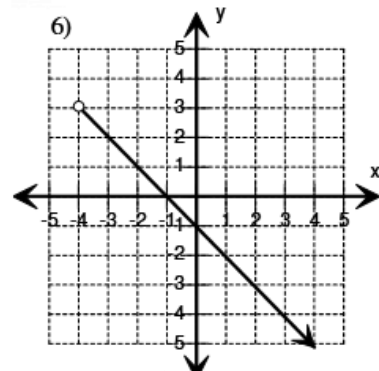
Domain:  $\{x \in \mathbb{R} \mid -2 < x < 5\}$   
 Range:  $\{y \in \mathbb{R} \mid 0 < y \leq 2\}$



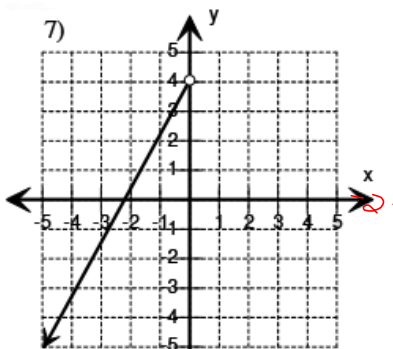
Domain:  $\{x \in \mathbb{R}\}$   
 Range:  $\{y \in \mathbb{R} \mid y \leq 3\}$



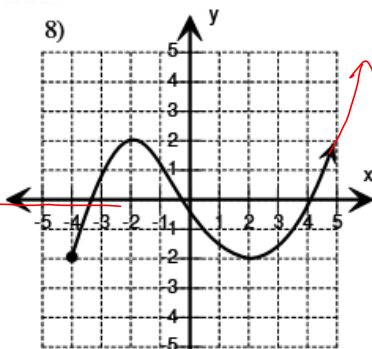
Domain:  $\{x \in \mathbb{R} \mid -4 \leq x \leq 4\}$  ✓  
 Range:  $\{y \in \mathbb{R} \mid 0 \leq y \leq 5\}$  ✓



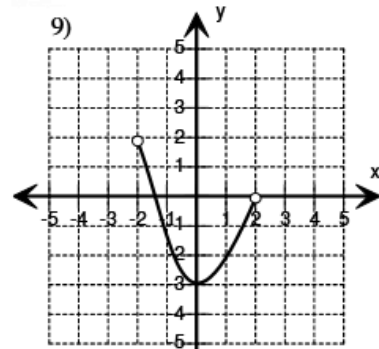
Domain:  $\{x \in \mathbb{R} \mid x > -4\}$  ✓  
 Range:  $\{y \in \mathbb{R} \mid y < 3\}$  ✓



Domain:  $\{x \in \mathbb{R} \mid 0 > x\}$   
 Range:  $\{y \in \mathbb{R} \mid 4 > y\}$



Domain:  $\{x \in \mathbb{R} \mid x \geq -4\}$   
 Range:  $\{y \in \mathbb{R} \mid y \geq -2\}$



Domain:  $\{x \in \mathbb{R} \mid -2 < x < 2\}$   
 Range:  $\{y \in \mathbb{R} \mid -3 \leq y < 2\}$

Today's Assigned Practice:

pp. 14–15 # 5, 6, 9, 10

Worksheet #2: Domain and Range #1-9 *(and on next screen)*

Tomorrow: **CheckPoint 1.1** (D & R)

Name : \_\_\_\_\_

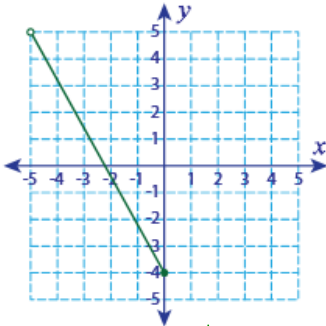
Score : \_\_\_\_\_

**Domain and Range**

ES1

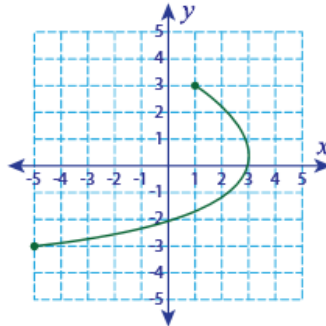
Find the domain and range for each graph.

1)



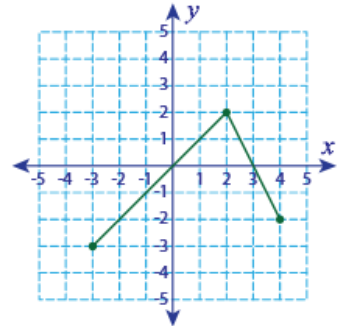
Domain :  $\{x \in \mathbb{R} \mid -5 < x \leq 0\}$   
 Range :  $\{y \in \mathbb{R} \mid -4 \leq y < 5\}$

2)



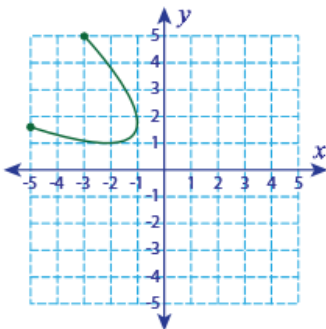
Domain : \_\_\_\_\_  
 Range : \_\_\_\_\_

3)



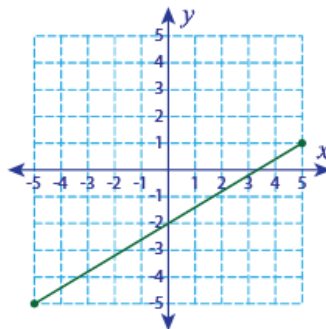
Domain : \_\_\_\_\_  
 Range : \_\_\_\_\_

4)



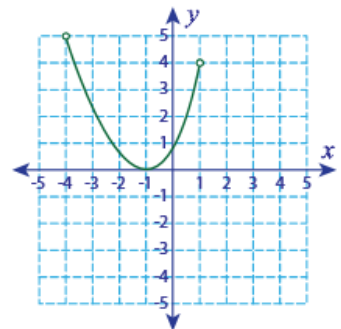
Domain : \_\_\_\_\_  
 Range : \_\_\_\_\_

5)



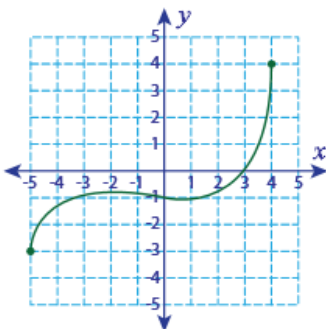
Domain : \_\_\_\_\_  
 Range : \_\_\_\_\_

6)



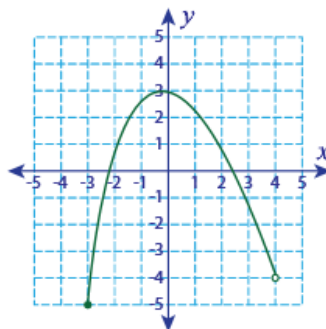
Domain : \_\_\_\_\_  
 Range : \_\_\_\_\_

7)



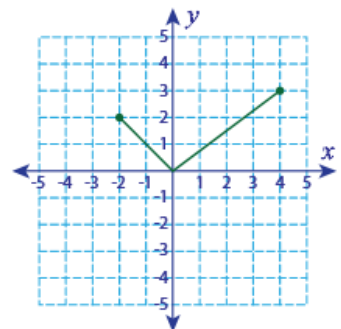
Domain : \_\_\_\_\_  
 Range : \_\_\_\_\_

8)



Domain : \_\_\_\_\_  
 Range : \_\_\_\_\_

9)



Domain : \_\_\_\_\_  
 Range : \_\_\_\_\_