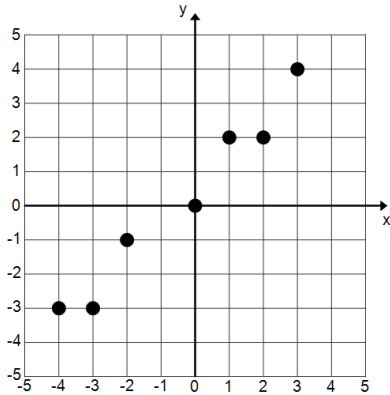


**#1-6: For each graph, describe the domain and range in set notation OR with an inequality.**

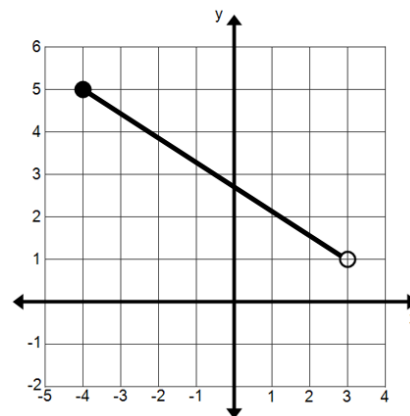
1.



Domain:

Range:

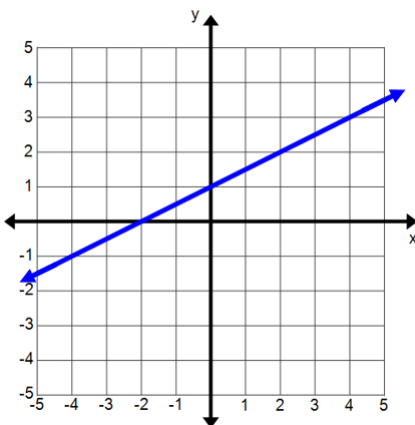
2.



Domain:

Range:

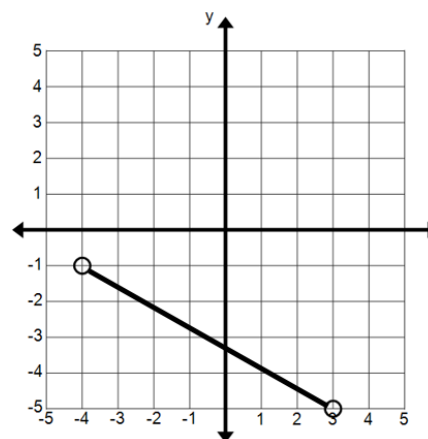
3.



Domain:

Range:

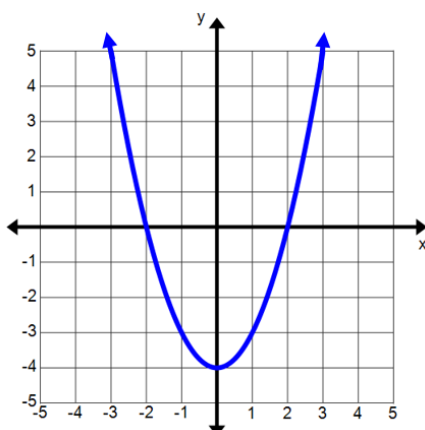
4.



Domain:

Range:

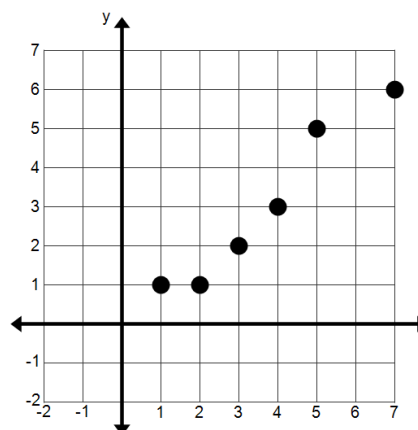
5.



Domain:

Range:

6.



Domain:

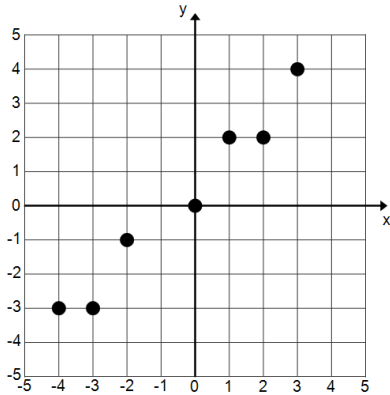
Range:

## Sec1

HW 4-3  
Features of Functions

**#1-6: For each graph, describe the domain and range in set notation OR with an inequality.**

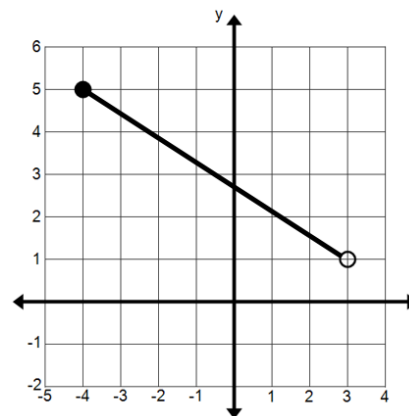
1.



Domain:

Range:

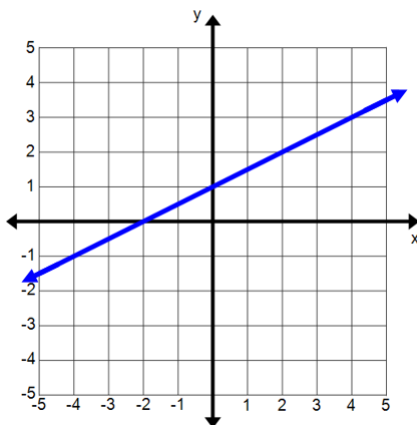
2.



Domain:

Range:

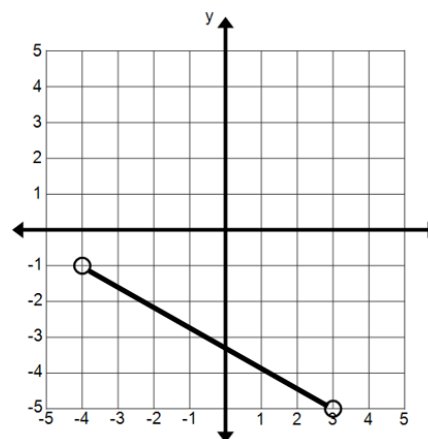
3.



Domain:

Range:

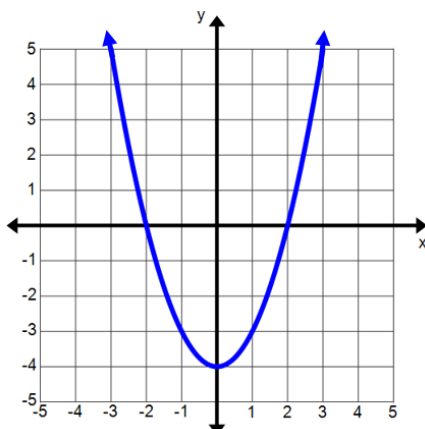
4.



Domain:

Range:

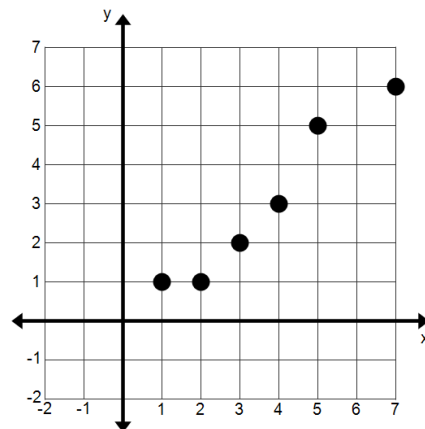
5.



Domain:

Range:

6.



Domain:

Range:

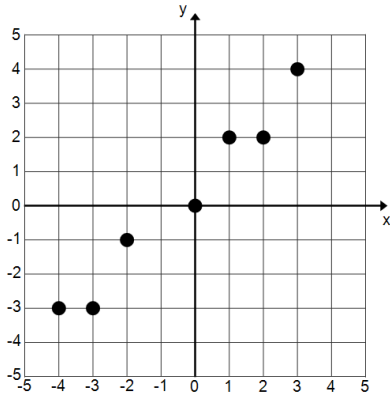
#7-12:: For each of the following graphs, identify if it is...

A. increasing, decreasing, or both

B. positive, negative, or both

C. continuous or discrete

7.

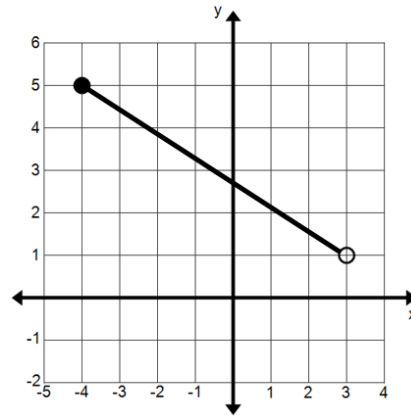


A:

B:

C:

8.

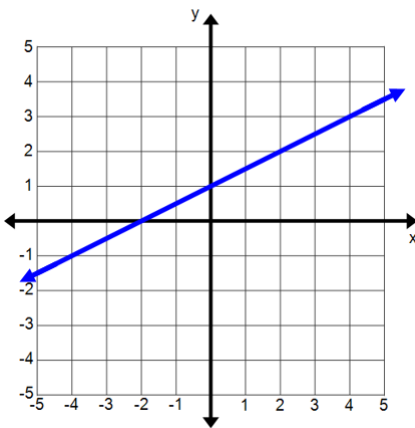


A:

B:

C:

9.

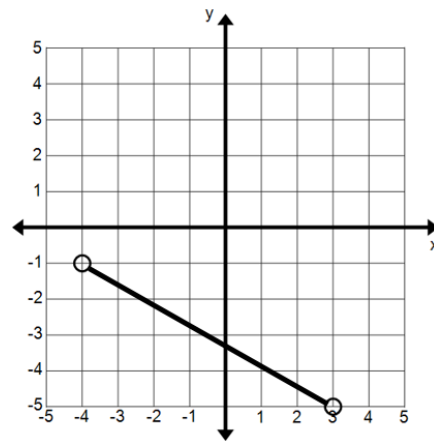


A:

B:

C:

10.

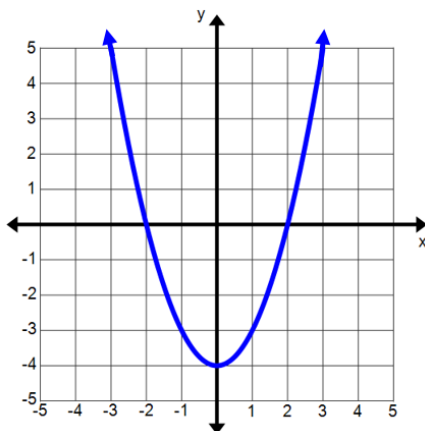


A:

B:

C:

11.

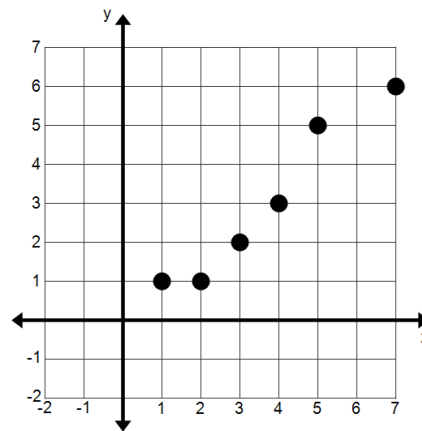


A:

B:

C:

12.



A:

B:

C:

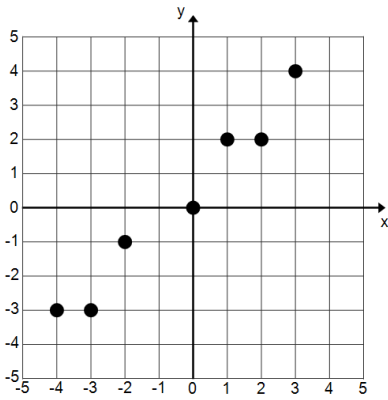
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B. positive, negative, or both

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7.

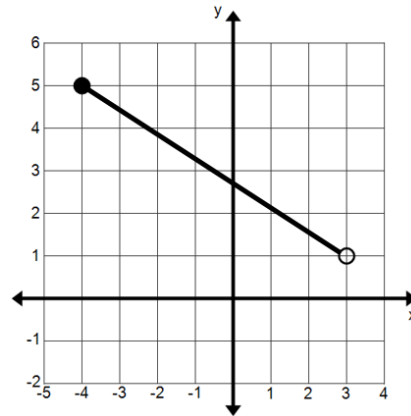


A:

B:

C:

8.

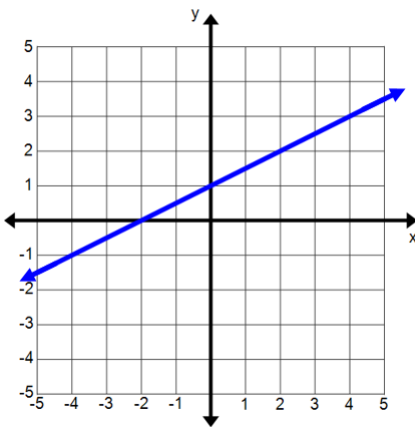


A:

B:

C:

9.

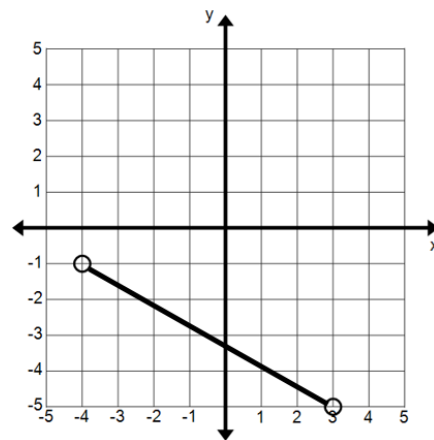


A:

B:

C:

10.

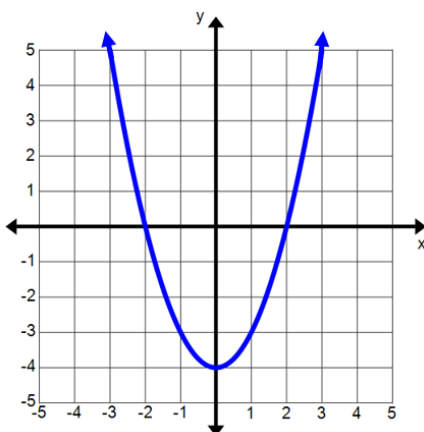


A:

B:

C:

11.

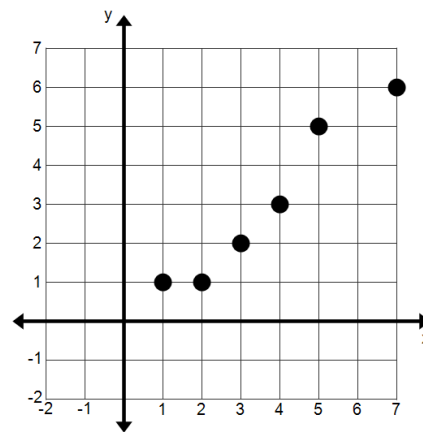


A:

B:

C:

12.



A:

B:

C:

Answers:

|                                      |                                   |   |                                      |                                    |                                      |
|--------------------------------------|-----------------------------------|---|--------------------------------------|------------------------------------|--------------------------------------|
| $x = \text{ARN}$<br>$y \geq -4$      | $-4 \leq x < 3$<br>$1 < y \leq 5$ | $\{1, 2, 3, 4, 5, 7\}$<br>$\{1, 2, 3, 5, 6\}$         | Decreasing<br>Positive<br>Continuous | Increasing<br>Positive<br>Discrete | Decreasing<br>Negative<br>Continuous |
| $x = \text{ARN}$<br>$y = \text{ARN}$ | $-4 < x < 3$<br>$-5 < y < -1$     | $\{-4, -3, -2, 0, 1, 2, 3\}$<br>$\{-3, -1, 0, 2, 4\}$ | Increasing<br>Both<br>Continuous     | Both<br>Both<br>Continuous         | Increasing<br>Both<br>Discrete       |

Answers:

|                                      |                                   |   |                                      |                                    |                                      |
|--------------------------------------|-----------------------------------|---|--------------------------------------|------------------------------------|--------------------------------------|
| $x = \text{ARN}$<br>$y \geq -4$      | $-4 \leq x < 3$<br>$1 < y \leq 5$ | $\{1, 2, 3, 4, 5, 7\}$<br>$\{1, 2, 3, 5, 6\}$         | Decreasing<br>Positive<br>Continuous | Increasing<br>Positive<br>Discrete | Decreasing<br>Negative<br>Continuous |
| $x = \text{ARN}$<br>$y = \text{ARN}$ | $-4 < x < 3$<br>$-5 < y < -1$     | $\{-4, -3, -2, 0, 1, 2, 3\}$<br>$\{-3, -1, 0, 2, 4\}$ | Increasing<br>Both<br>Continuous     | Both<br>Both<br>Continuous         | Increasing<br>Both<br>Discrete       |