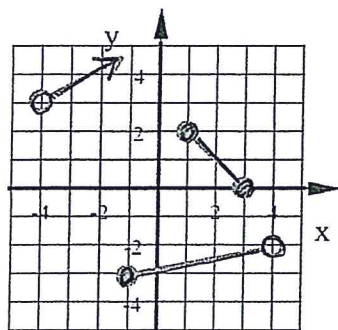# Bellwork   Alg 2A   Monday, October 3, 2016

1. State the Domain and Range of the graph below.
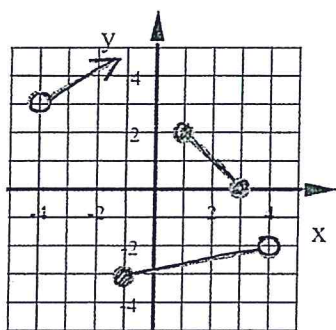

Domain:

Range:

2. State all the values of x that are more than 20 units away from zero on a number line.

3. State all the values of x that are less than 8 units from zero on a number line.

4. State all the values of x that are exactly 11 units from zero on a number line.

5. Solve this equation. $|x - 3| + 8 = 20$

Bellwork   Alg 2A   Monday, October 3, 2016   Answers

1. State the Domain and Range of the graph below.

Domain: $x > -4$

Range: $-3 \leq y < -2 , \; 0 \leq y \leq 2 , \; y > 3$

2. State all the values of x that are more than 20 units away from zero on a number line.

$x < -20$ or $x > 20$

3. State all the values of x that are less than 8 units from zero on a number line.

$-8 < x < 8$

4. State all the values of x that are exactly 11 units from zero on a number line.

$x = -11, \; x = 11$

5. Solve this equation. $|x - 3| + 8 = 20$

$$\underset{-8 \quad -8}{|x-3| + 8 = 20}$$

$|x - 3| = 12$

$x - 3 = -12$
$+3 \quad +3$

$x - 3 = 12$
$+3 \quad +3$

$x = -9, 15$

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