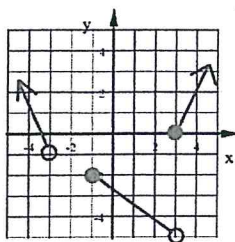# Bellwork Alg 2A   Monday, October 17, 2016

1. State the Domain and Range of this graph.

Domain:

Range:

2. Write the equation of the line that passes through the given points in both Slope-Intercept and Point-Slope Form. $(12, -36)$ & $(-9, 13)$

Slope-Intercept   Point-Slope

3. State the slope of the line and the point that was used to write the equation in Point-Slope Form:
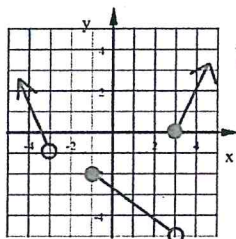
$y - 9 = 3(x + 5)$ $m =$ $Point :$

Bellwork Alg 2A   Monday, October 17, 2016 [ANSWERS]

1. State the Domain and Range of this graph.

Domain: $x < -3, \ x \geq -1$

Range: $y > -1, \quad -5 < y \leq -2$

2. Write the equation of the line that passes through the given points in both Slope-Intercept and Point-Slope Form. $(12, -36)$ & $(-9, 13)$

$$m = \frac{13 - -36}{-9 - 12} = \frac{49}{-21} = -\frac{7}{3}$$

Slope-Intercept   Point-Slope

$$\boxed{y = -\tfrac{7}{3}x - 8}$$

CHANGE
point-slope
into
slope-int

$$\boxed{\begin{array}{c} y + 36 = -\tfrac{7}{3}(x - 12) \\ or \\ y - 13 = -\tfrac{7}{3}(x + 9) \end{array}}$$

3. State the slope of the line and the point that was used to write the equation in Point-Slope Form:

$y - 9 = 3(x + 5)$ $m = 3$ $Point : (-5, 9)$

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