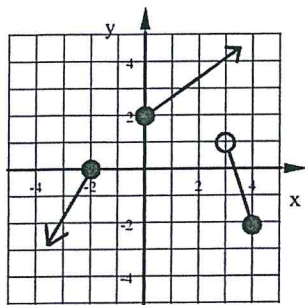1. State the Domain and Range of this graph.

Domain:

Range:

2. Write the equation of the line that passes through the given pair of points in both Slope-Intercept and Point-Slope Forms.
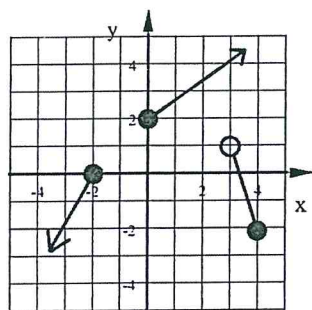
$(4,1)$ & $(-6,-24)$

Slope-Intercept Form: Point-Slope Form:

Bellwork   Alg 2A   Friday, October 14, 2016   Answers

1. State the Domain and Range of this graph.

Domain: $X \leq -2, \; X \geq 0$

Range: $y < 1, \; y \geq 2$

2. Write the equation of the line that passes through the given pair of points in both Slope-Intercept and Point-Slope Forms.

$(4,1)$ & $(-6,-24)$

$$m = \frac{1--24}{4--6} = \frac{25}{10} = 5/2$$

Slope-Intercept Form:

$$y = 5/2 x - 9$$

Point-Slope Form:

$$y - 1 = 5/2(x-4) \quad \text{or} \quad y+24 = 5/2(x+6)$$

$$y - 1 = 5/2 x - 10$$
$$+1 \qquad\qquad +1$$
$$y = 5/2 x - 9$$

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