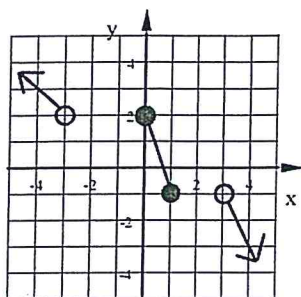


Bellwork Alg 2A Wednesday, October 12, 2016

1. State the domain and the range of this graph:



Domain:

Range:

2. Write the equation of the line that passes through this pair of points in both Point-Slope and Slope-Intercept Forms. (6, 8) & (12, -2)

Point-Slope Form

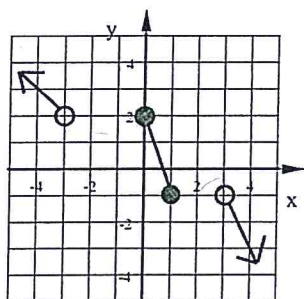
Slope-Intercept Form

3. Find the slope of the line that passes through these two points. Give your answer in reduced form.
 $(\frac{7}{3}, \frac{5}{6})$ & $(\frac{5}{9}, \frac{3}{2})$

Bellwork Alg 2A Wednesday, October 12, 2016

ANSWERS

1. State the domain and the range of this graph:



Domain: $x < -3, 0 \leq x \leq 1, x > 3$

Range: ALL REAL #s

2. Write the equation of the line that passes through this pair of points in both Point-Slope and Slope-Intercept Forms. (6, 8) & (12, -2)

Point-Slope Form

$$m = \frac{8 - (-2)}{6 - 12} = \frac{10}{-6} = -\frac{5}{3}$$

Slope-Intercept Form

START WITH $y - 8 = -\frac{5}{3}(x - 6)$

$$y - 8 = -\frac{5}{3}x + 10$$

$+8$ $+8$

$$y = -\frac{5}{3}x + 18$$

$$y - 8 = -\frac{5}{3}(x - 6)$$

or

$$y + 2 = -\frac{5}{3}(x - 12)$$

3. Find the slope of the line that passes through these two points. Give your answer in reduced form.
 $(\frac{7}{3}, \frac{5}{6})$ & $(\frac{5}{9}, \frac{3}{2})$

$$\frac{\frac{5}{6} - \frac{3}{2}}{\frac{7}{3} - \frac{5}{9}} = \frac{18}{18} = \frac{15 - 27}{42 - 10} = \frac{-12}{32} = \frac{-3}{8}$$