

## Graphing Review 5 WS Answers

1.

(a) Slope-intercept form:

$$y = -\frac{1}{2}x + 6$$

Point-slope form:

$$y - 1 = -\frac{1}{2}(x - 10)$$

$$y - 2 = -\frac{1}{2}(x - 8)$$

$$y - 3 = -\frac{1}{2}(x - 6)$$

$$y - 4 = -\frac{1}{2}(x - 4)$$

$$y - 5 = -\frac{1}{2}(x - 2)$$

$$y - 6 = -\frac{1}{2}(x - 0)$$

$$y - 7 = -\frac{1}{2}(x + 2)$$

$$y - 8 = -\frac{1}{2}(x + 4)$$

$$y - 9 = -\frac{1}{2}(x + 6)$$

$$y - 10 = -\frac{1}{2}(x + 8)$$

(b) Slope-intercept form:

$$y = \frac{1}{5}x + 7$$

Point-slope form:

$$y - 5 = \frac{1}{5}(x + 10)$$

$$y - 6 = \frac{1}{5}(x + 5)$$

$$y - 7 = \frac{1}{5}(x - 0)$$

$$y - 8 = \frac{1}{5}(x - 5)$$

$$y - 9 = \frac{1}{5}(x - 10)$$

(c) Slope-intercept form:

$$y = x + 9$$

Point-slope form:

$$y + 1 = (x + 10)$$

$$y - 0 = (x + 9)$$

$$y - 1 = (x + 8)$$

$$y - 2 = (x + 7)$$

$$y - 3 = (x + 6)$$

$$y - 4 = (x + 5)$$

$$y - 5 = (x + 4)$$

$$y - 6 = (x + 3)$$

$$y - 7 = (x + 2)$$

$$y - 8 = (x + 1)$$

$$y - 9 = (x - 0)$$

$$y - 10 = (x - 1)$$

2.

(a)  $y + 5 = 2(x - 8)$

(b)  $y + 8 = -\frac{1}{5}(x - 10)$

(c)  $y - 6 = \frac{1}{2}(x - 7)$

3.

(a) Point-slope:

$$y + 6 = -\frac{15}{2}(x - 5)$$

$$y - 9 = -\frac{15}{2}(x - 3)$$

(b) Point-slope:

$$y + 5 = -5(x - 2)$$

$$y - 5 = -5(x - 0)$$

(c) Point-slope:

$$y - 1 = \frac{4}{13}(x + 7)$$

$$y - 5 = \frac{4}{13}(x - 6)$$

Slope-intercept:

$$y = -\frac{15}{2}x + \frac{63}{2}$$

Slope-intercept:

$$y = -5x + 5$$

Slope-intercept:

$$y = \frac{4}{13}x + \frac{41}{13}$$

Standard:

$$15x + 2y = 63$$

Standard:

$$5x + y = 5$$

Standard:

$$4x - 13y = -41$$

4.

(a) Point-slope:

$$y + 4 = -2(x + 9)$$

(b) Point-slope:

$$y + 4 = \frac{1}{2}(x + 8)$$

Slope-intercept:

$$y = -2x - 22$$

Slope-intercept:

$$y = \frac{1}{2}x + 0$$

