

Name: .....

Date: ..... Score: .....

## Slope-Intercept Form Worksheet

Write each equation in slope-intercept form ( $y = mx + b$ )

1  $2x + 4y = 8$

2  $4 - 8x = 2y$

3  $-12x + y = 8$

4  $2y - 6 = -6x$

5  $7 = 2x - y$

6  $4y = 4x$

Write the slope-intercept form of the lines having the following slopes and y-intercepts

7 Slope = 3, y-intercept = -2

8 Slope = -3, y-intercept = 7

9 Slope = 0, y-intercept = -1

10 Slope =  $-\frac{1}{2}$ , y-intercept = -2

11 Slope =  $-\frac{4}{5}$ , y-intercept = 0

12 Slope = -1, y-intercept = -4

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### Answers

①  $2x + 4y = 8$

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

②  $4 - 8x = 2y$

③  $-12x + y = 8$

$$y = 12x + 8$$

④  $2y - 6 = -6x$

$$y = -3x + 3$$

⑤  $7 = 2x - y$

$$y = 2x - 7$$

⑥  $4y = 4x$

$$y = x + 0$$

⑦ Slope = 3, y-intercept = -2

$$y = 3x - 2$$

⑧ Slope = -3, y-intercept = 7

$$y = -3x + 7$$

⑨ Slope = 0, y-intercept = -1

$$y = -1$$

⑩ Slope =  $-\frac{1}{2}$ , y-intercept = -2

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

⑪ Slope =  $-\frac{4}{5}$ , y-intercept = 0

$$y = -\frac{4}{5}x$$

⑫ Slope = -1, y-intercept = -4

$$y = -x - 4$$