Algebra: Graphing Linear Equations — Slope-Inter Form

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DIRECTIONS *Identify slope and y-intercept, or rewrite in slope-intercept form y = mx + b.*

1 Rewrite in slope-intercept form:

$$3x + 2y = 4$$

Answer: _____

2 Rewrite in slope-intercept form:

$$2x + 3y = -10$$

Answer: _____

3 Identify slope and y-intercept:

$$y = -1x - 1$$

Answer: _____

4 Rewrite in slope-intercept form:

$$2x + 3y = -3$$

Answer: _____

5 Rewrite in slope-intercept form:

$$1x + 1y = 3$$

Answer: _____

6 Rewrite in slope-intercept form:

$$4x + 3y = -12$$

Answer: _____

7 Identify slope and y-intercept:

$$y = 2x - 2$$

Answer: _____

8 Identify slope and y-intercept:

$$y = 3x + 2$$

Answer: _____

9 Identify slope and y-intercept:

$$y = -1x + 4$$

Answer: _____

10 Identify slope and y-intercept:

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

Answer: _____

Answer Key & Solutions

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TEACHER NOTES *In y=mx+b: m is slope (rise/run) and b is y-intercept. Rewrite standard form by solving for y.*

1 Rewrite in slope-intercept form:

$3x + 2y = 4$

= $y = -\frac{3}{2}x + 2$

2 Rewrite in slope-intercept form:

$2x + 3y = -10$

= $y = -\frac{2}{3}x - \frac{10}{3}$

3 Identify slope and y-intercept:

$y = -1x - 1$

= $m = -1,\ b = -1$

4 Rewrite in slope-intercept form:

$2x + 3y = -3$

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

5 Rewrite in slope-intercept form:

$1x + 1y = 3$

= $y = -1x + 3$

6 Rewrite in slope-intercept form:

$4x + 3y = -12$

= $y = -\frac{4}{3}x - 4$

7 Identify slope and y-intercept:

$y = 2x - 2$

= $m = 2,\ b = -2$

8 Identify slope and y-intercept:

$y = 3x + 2$

= $m = 3,\ b = 2$

9 Identify slope and y-intercept:

$y = -1x + 4$

= $m = -1,\ b = 4$

10 Identify slope and y-intercept:

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

= $m = \frac{1}{2},\ b = -1$