



Slope-Intercept Form of a Line (page 1)

Nonproportional linear relationships can be written in the form $y = mx + b$, where m is the slope and b is the y -intercept.

Examples:

1. State the slope and the y -intercept of the graph of the equation $y = \frac{3}{4}x + 2$.

Slope is $\frac{3}{4}$ and y -intercept is 2.

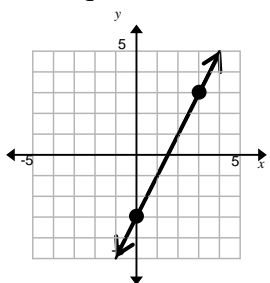
2. State the slope and the y -intercept of the graph of the equation $y = -2x - 7$.

Slope is -2 and y -intercept is -7

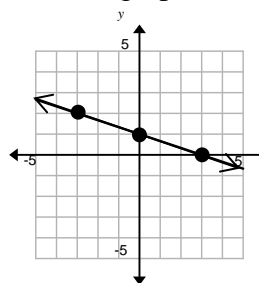
3. Write an equation of a line in slope-intercept form with a slope of -3 and a y -intercept 2.

$y = -3x + 2$

4. Write an equation of a line in slope-intercept form for each graph shown.



$y = 2x - 3$



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



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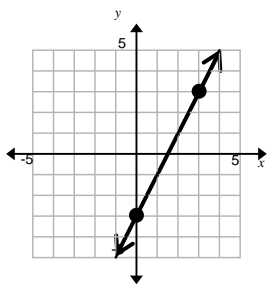
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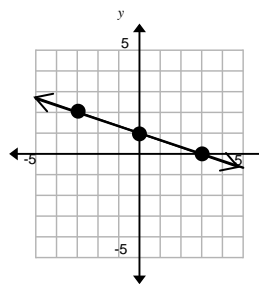
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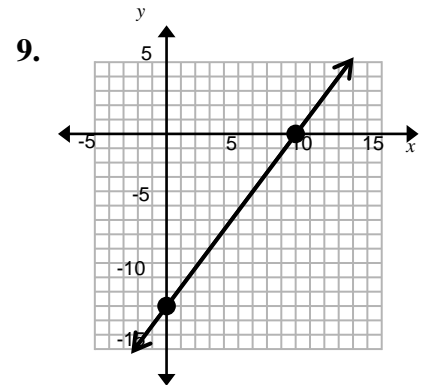
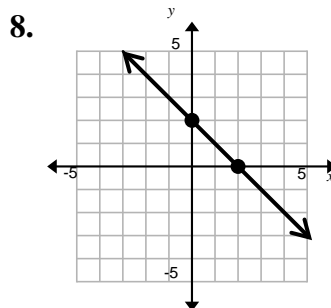
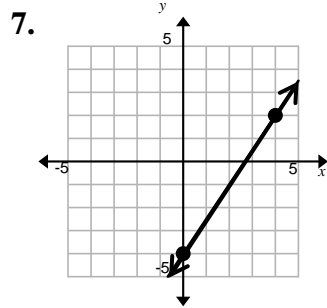
State the slope and the y-intercept for the graph of each equation.

1. $y = 3x - 7$ 2. $y = \frac{2}{3}x + 4$ 3. $y = -\frac{2}{5}x - 4$

Write an equation of a line in slope-intercept form with the given slope.

4. Slope: $-\frac{2}{3}$; y-intercept: 5 5. Slope: $\frac{5}{3}$; y-intercept: -1 6. Slope: $-\frac{2}{3}$; y-intercept: 12

Write an equation in slope-intercept form for each graph shown.



Slope-Intercept Form of a Line (page 2)

State the slope and the y-intercept for the graph of each equation.

2. $y = 3x - 7$ 2. $y = \frac{2}{3}x + 4$ 3. $y = -\frac{2}{5}x - 4$

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