

Algebra
Slope-Intercept Form

Name: _____
Date: _____

Find the slope and y-intercept of each equation.

1. $y = \frac{2}{3}x + 2$ $m =$ _____ $b =$ _____ 2. $y = 2x - 3$ $m =$ _____ $b =$ _____

Write an equation of a line with the given slope and y-intercept.

3. $m = \frac{1}{3}, b = 3$ 4. $m = -\frac{5}{2}, b = -6$ 5. $m = -.5, b = 2$

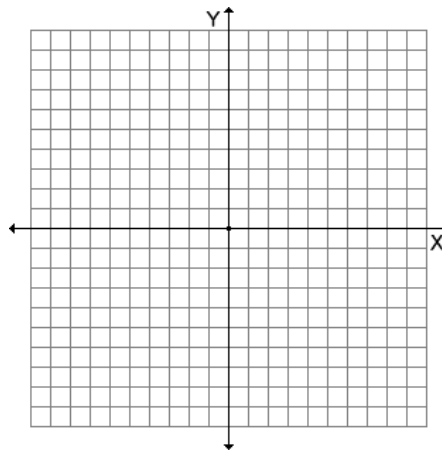
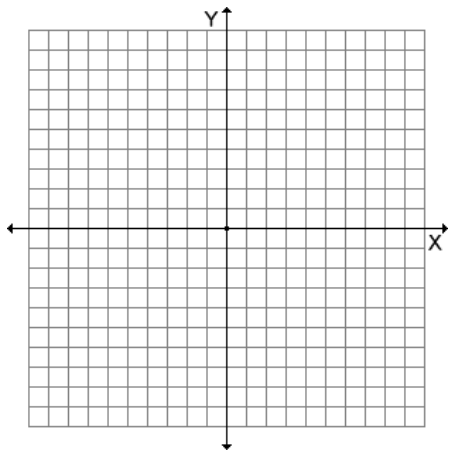
Identify the slope and y-intercept of each equation. Then graph the equation.

6. $y = \frac{2}{3}x + 2$

7. $y = 2x - 3$

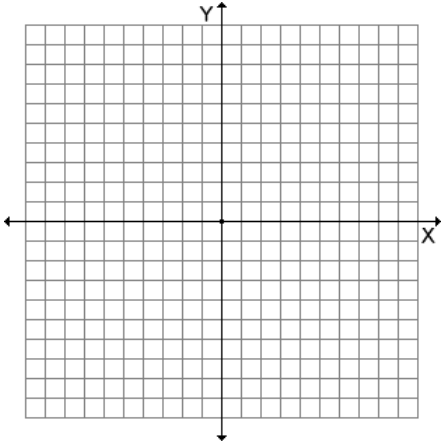
Slope = _____ y-intercept = _____

Slope = _____ y-intercept = _____



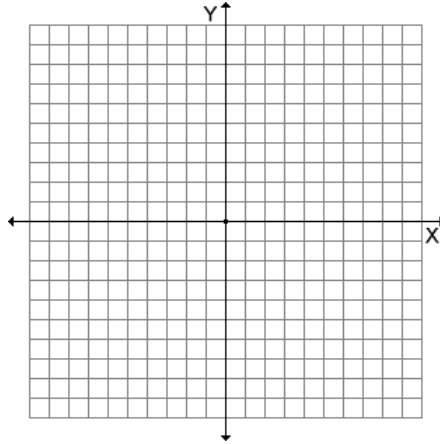
8. $y = -2x - 1$

Slope = _____ y-intercept = _____



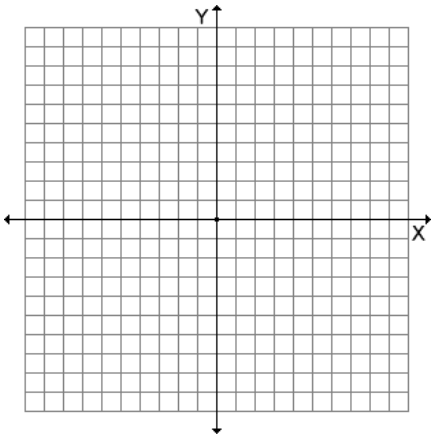
9. $y = -x + 1$

Slope = _____ y-intercept = _____



Identify the slope and y-intercept of the lines in the graphs below. Then write an equation for each line in slope-intercept form.

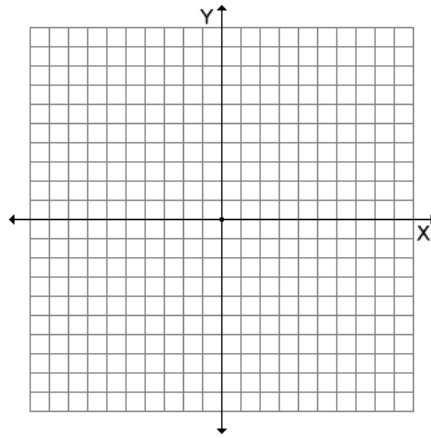
10.



Slope = _____ y-intercept = _____

Equation: _____

11.



Slope = _____ y-intercept = _____

Equation: _____

Solve each equation for y . Then find the slope and y -intercept.

12. $y - 5 = 3x$

13. $2y + 4x = 10$

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$m = \underline{\hspace{1cm}}$ $b = \underline{\hspace{1cm}}$

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14. $2(2y - 4) = 12x$

15. $y + 2x = -3x + 1$

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