4.4

Graphing and Writing Linear Equations (Cont.)

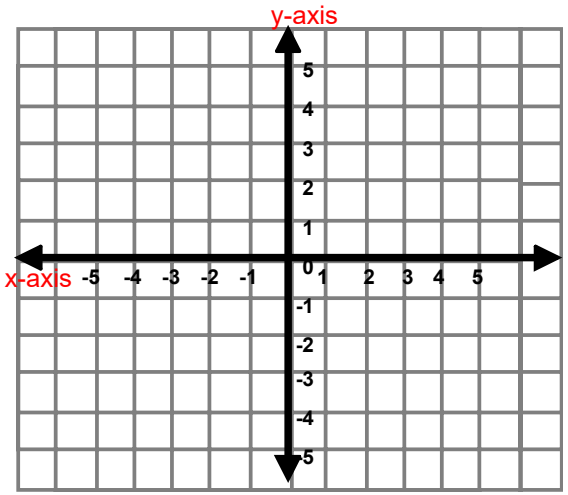
Slope-Intercept Form of a Linear Equation

$$y = mx + b$$

Graphing Linear Equations

Graph the following equation using slope-intercept form.

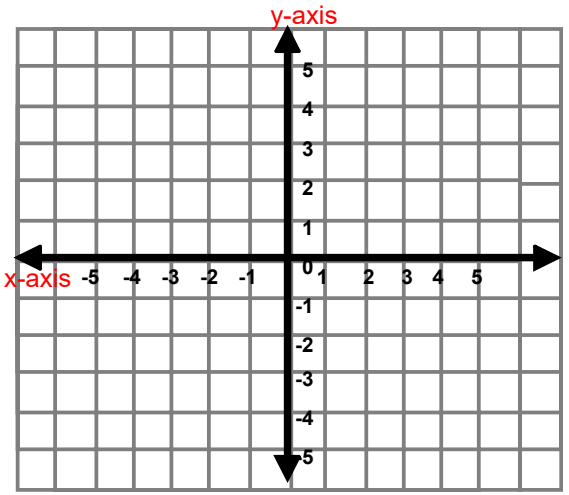
1) $y = 3x - 4$



Graphing Linear Equations

Graph the following equation using slope-intercept form.

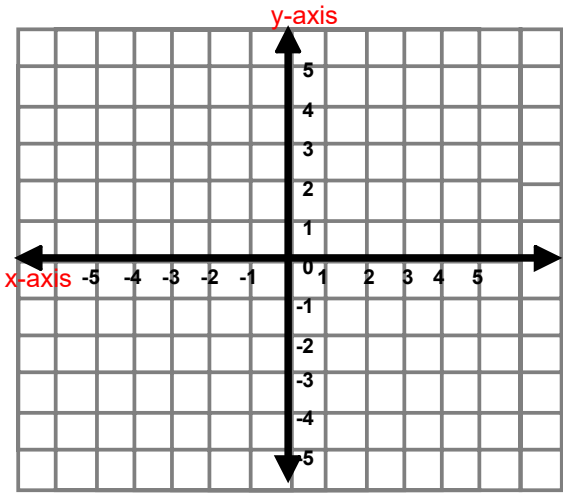
2) $y = -\frac{3}{4}x + 1$



Graphing Linear Equations

Graph the following equation using slope-intercept form.

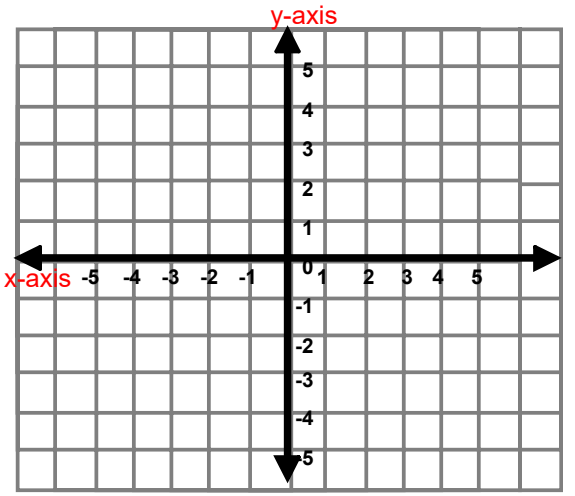
3) $y = -x + 4$



Graphing Linear Equations

Graph the following equation using slope-intercept form.

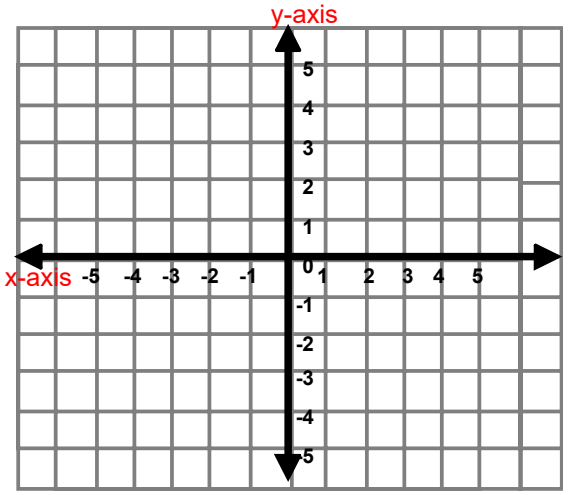
4) $y = \frac{3}{5}x$



Graphing Linear Equations

Graph the following equation using slope-intercept form.

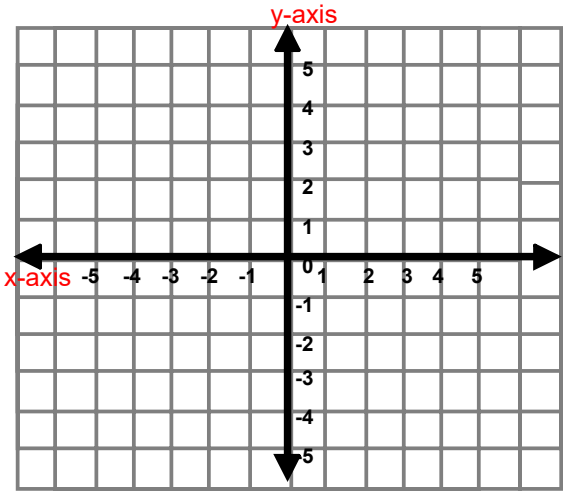
5) $y - 3 = -\frac{2}{5}x$



Graphing Linear Equations

Graph the following equation using slope-intercept form.

6) $-4x + 2y = 6$



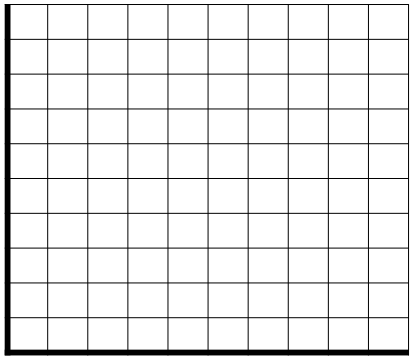
Exploring **Write and equation in slope-intercept form and then graph.**

7) The admission cost of going to a fair is $5 and it cost $2 for every ride you go on.

a) Equation:

b) Slope = _____

y-int = _____



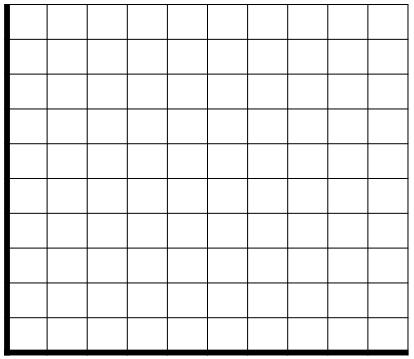
Exploring **Write and equation in slope-intercept form and then graph.**

8) A movie club charges $3 per movie you rent and has a $2 initiation fee.

a) Equation:

b) Slope = _____

y-int = _____

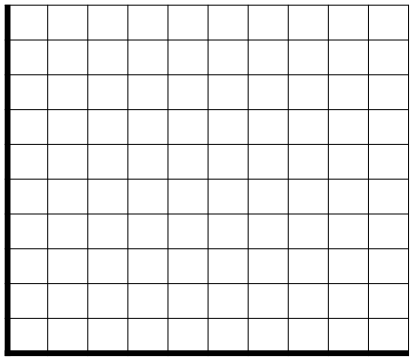


Exploring

9) The cost of *y* (in dollars) of taking a taxi *x* miles is $y = 4x + 1$.

a) Graph the equation.

b) Interpret the *y*-intercept and slope.



Exploring

10) The cost of *y* (in dollars) for making friendship bracelets is $y = 0.5x + 3$, where *x* is the number of bracelets.

a) Graph the equation.

b) Interpret the *y*-intercept and slope.