

4.4

Graphing and Writing Linear Equations (Cont.)

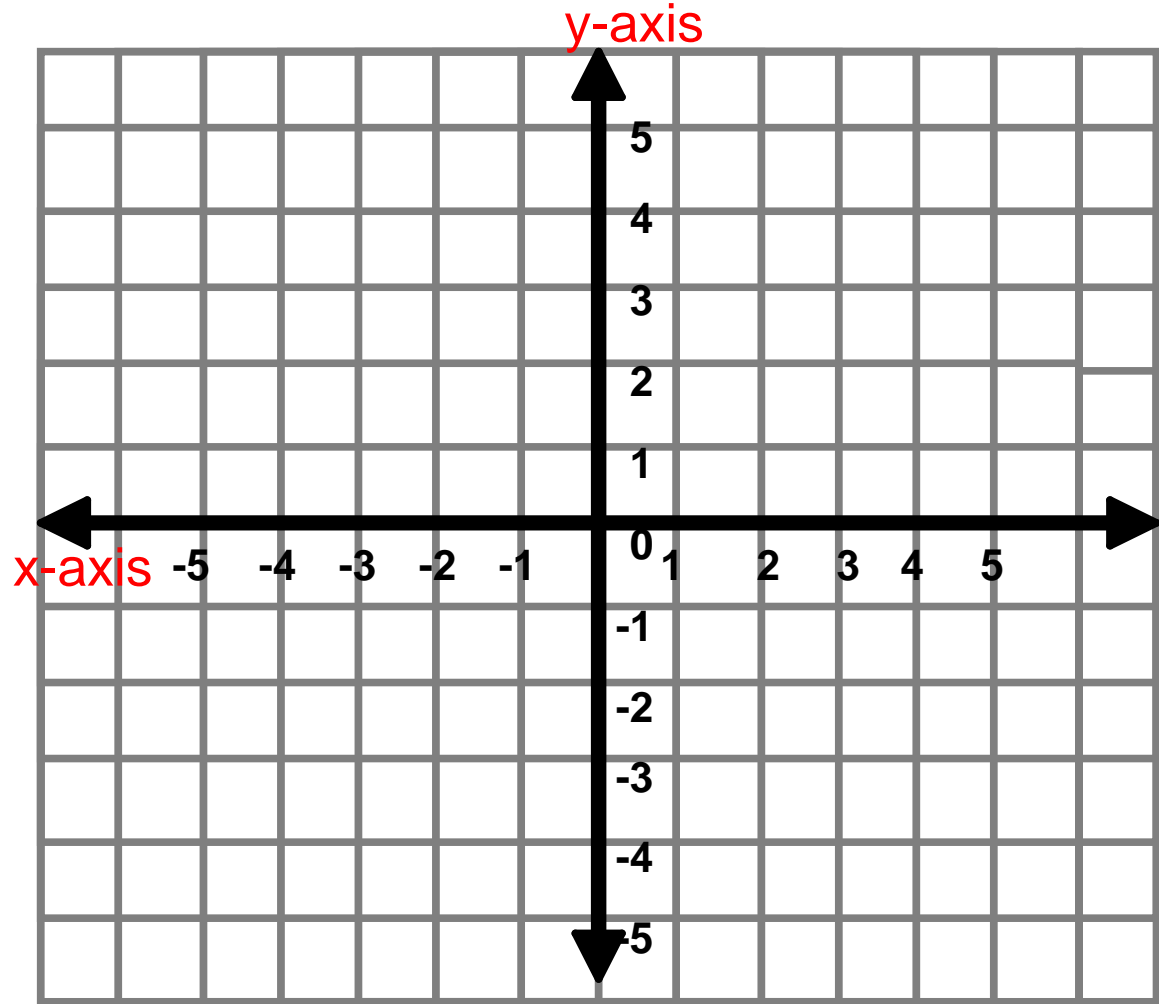
Slope-Intercept Form of a Linear Equation

$$y = mx + b$$

Graphing Linear Equations

Graph the following equation using slope-intercept form.

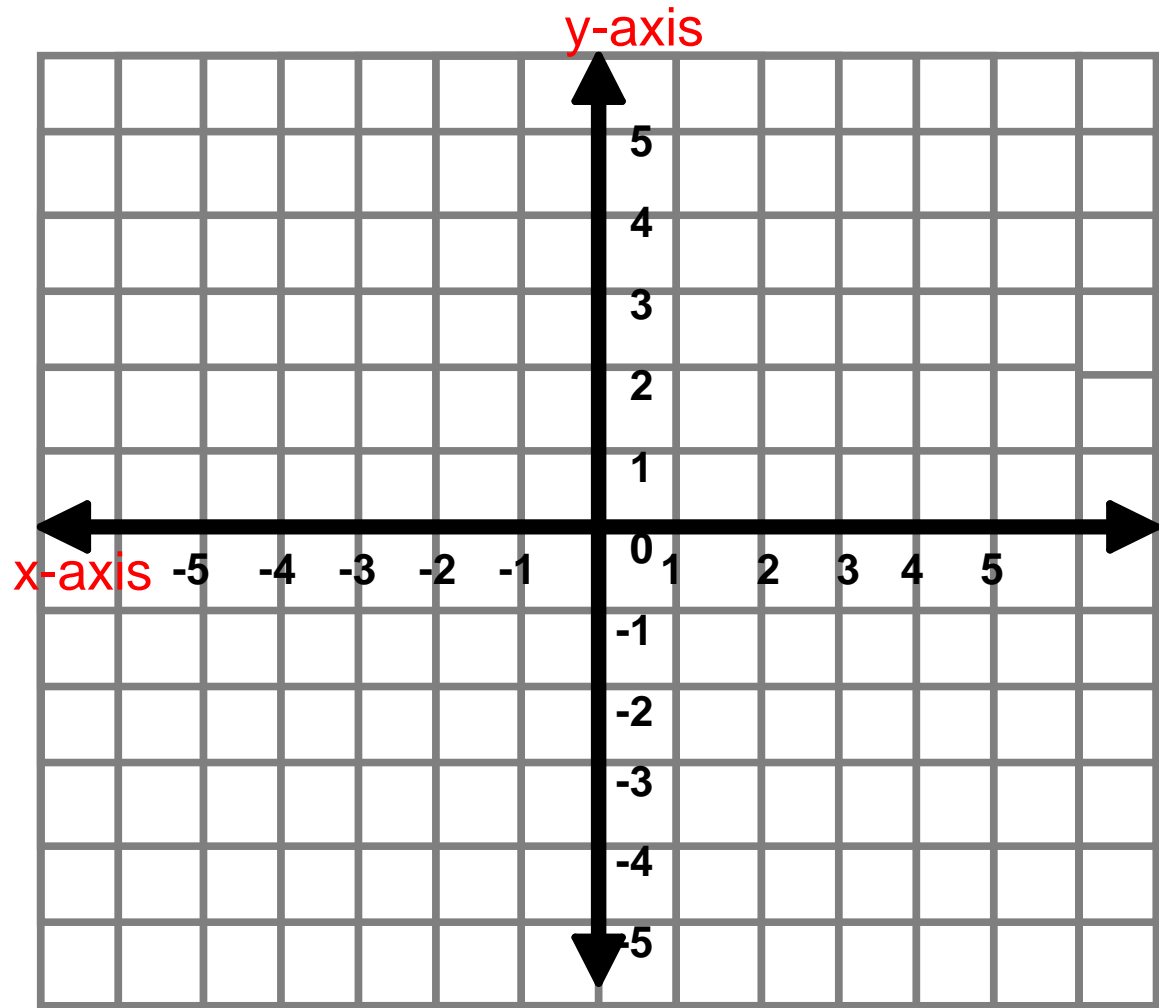
1) $y = 3x - 4$



Graphing Linear Equations

Graph the following equation using slope-intercept form.

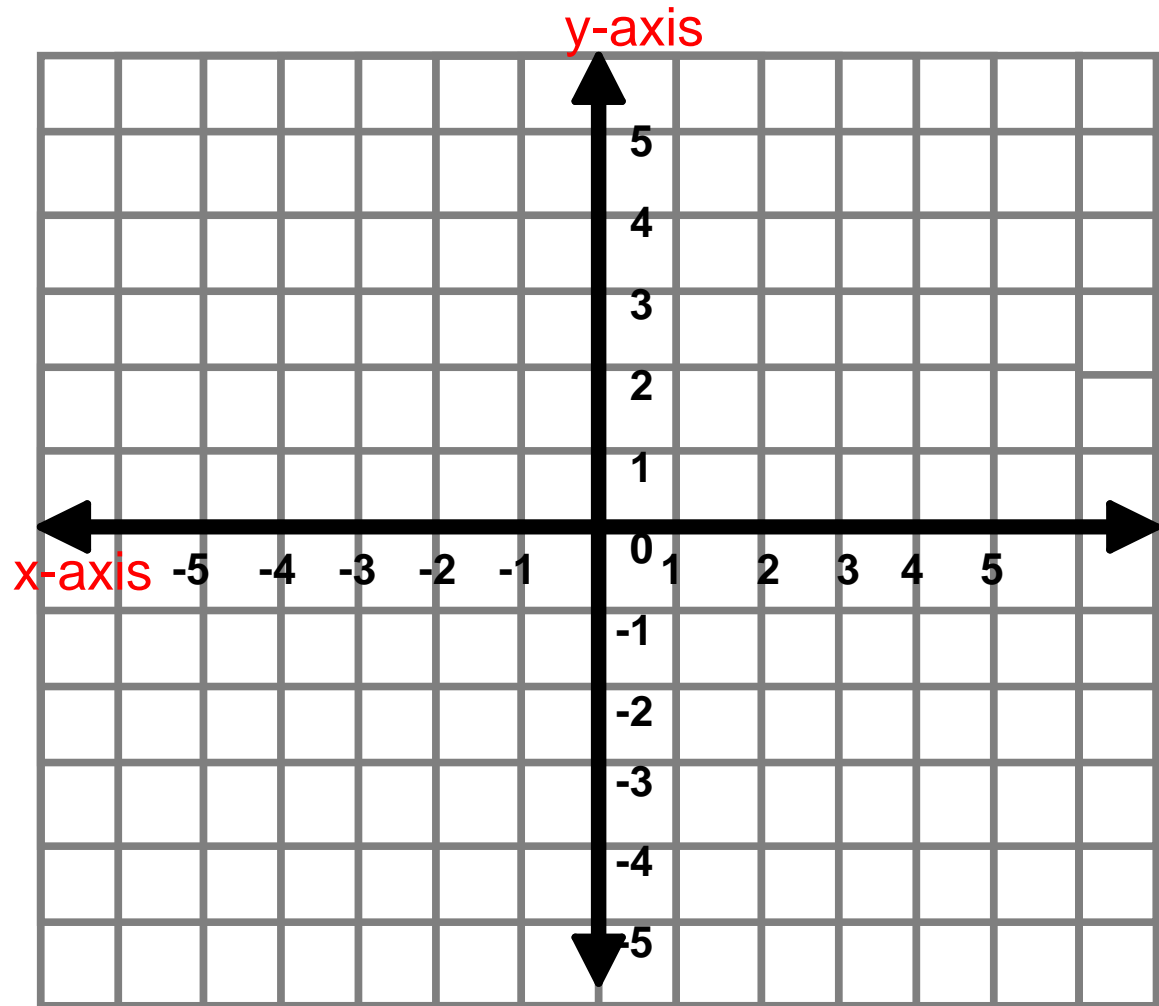
$$2) \quad y = -\frac{3}{4}x + 1$$



Graphing Linear Equations

Graph the following equation using slope-intercept form.

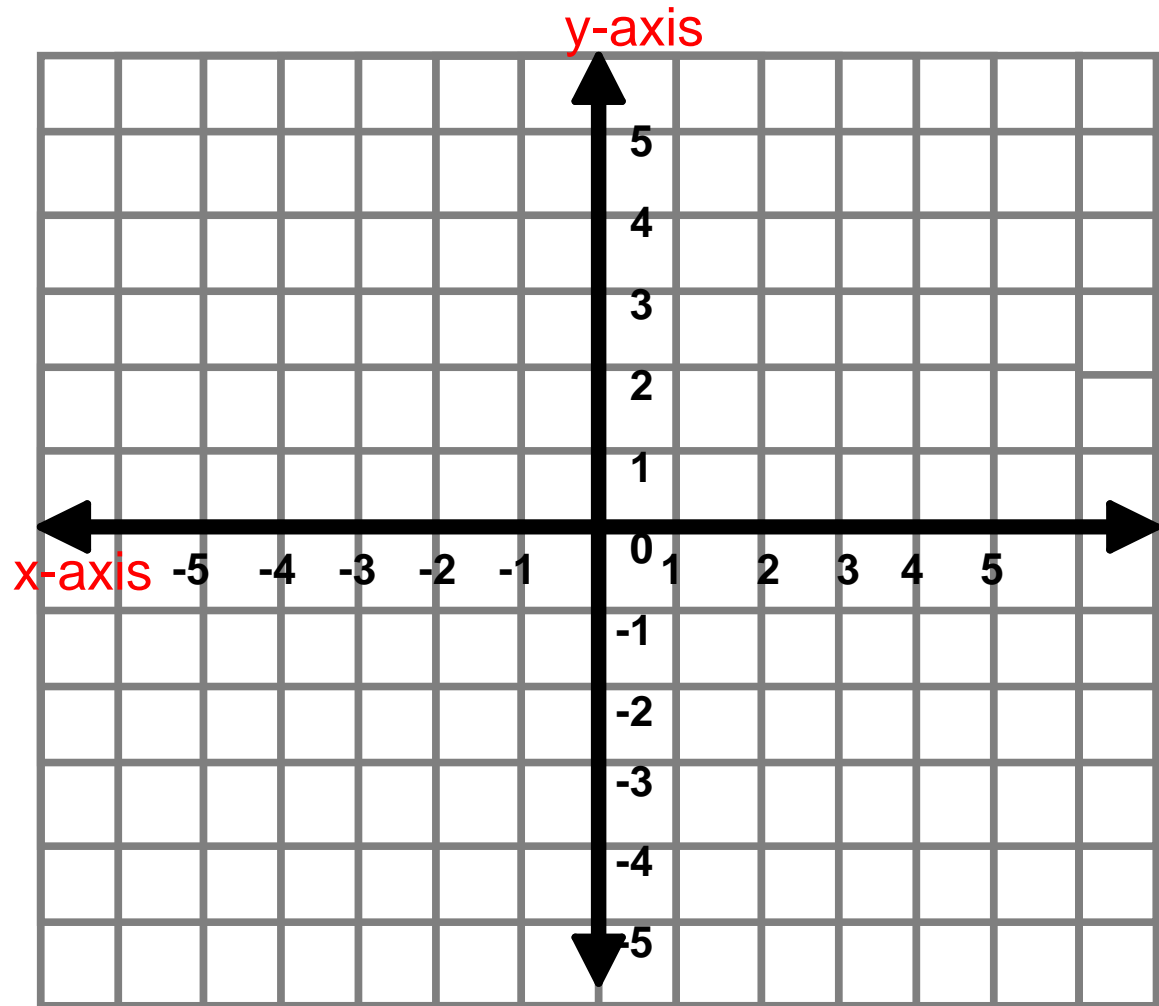
3) $y = -x + 4$



Graphing Linear Equations

Graph the following equation using slope-intercept form.

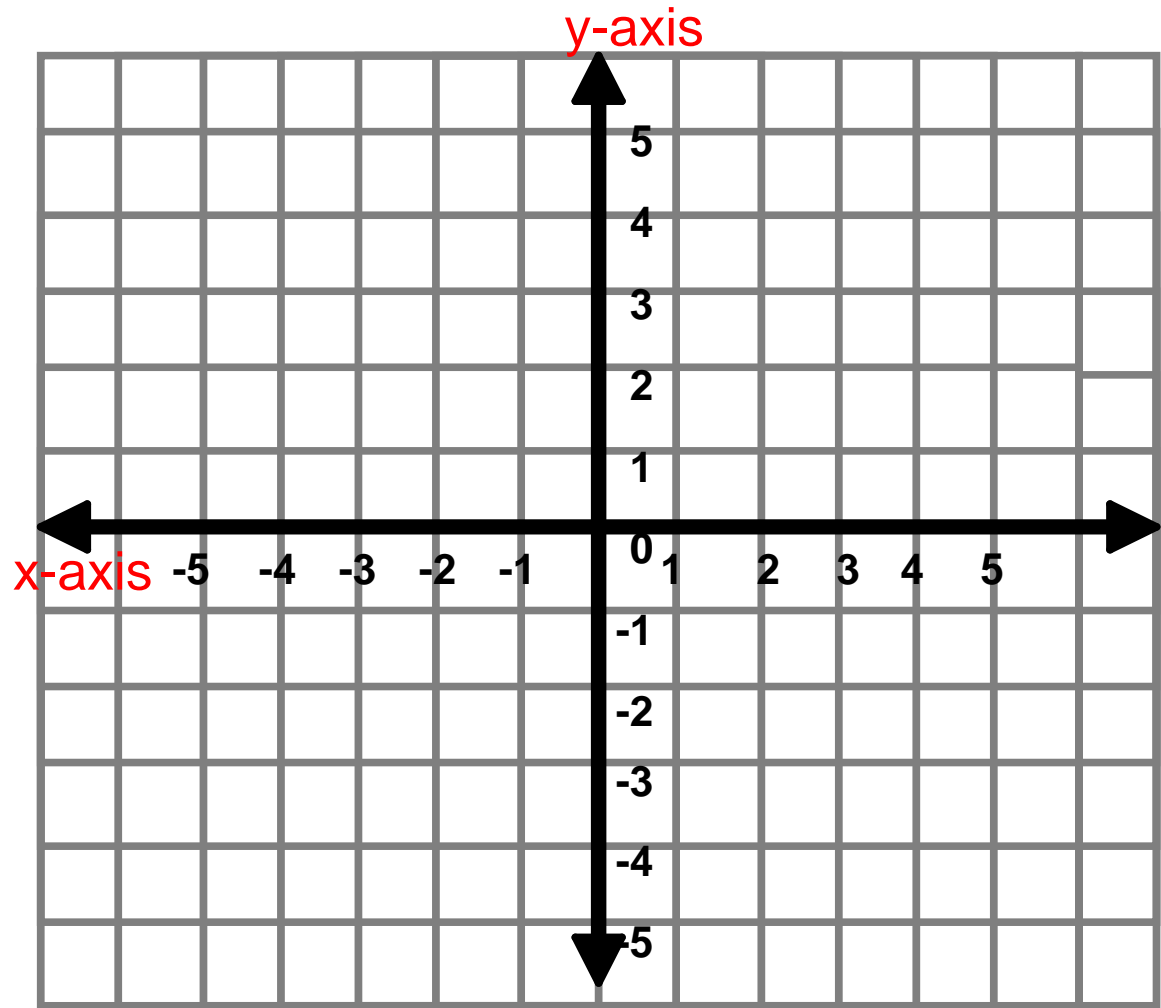
4) $y = \frac{3}{5}x$



Graphing Linear Equations

Graph the following equation using slope-intercept form.

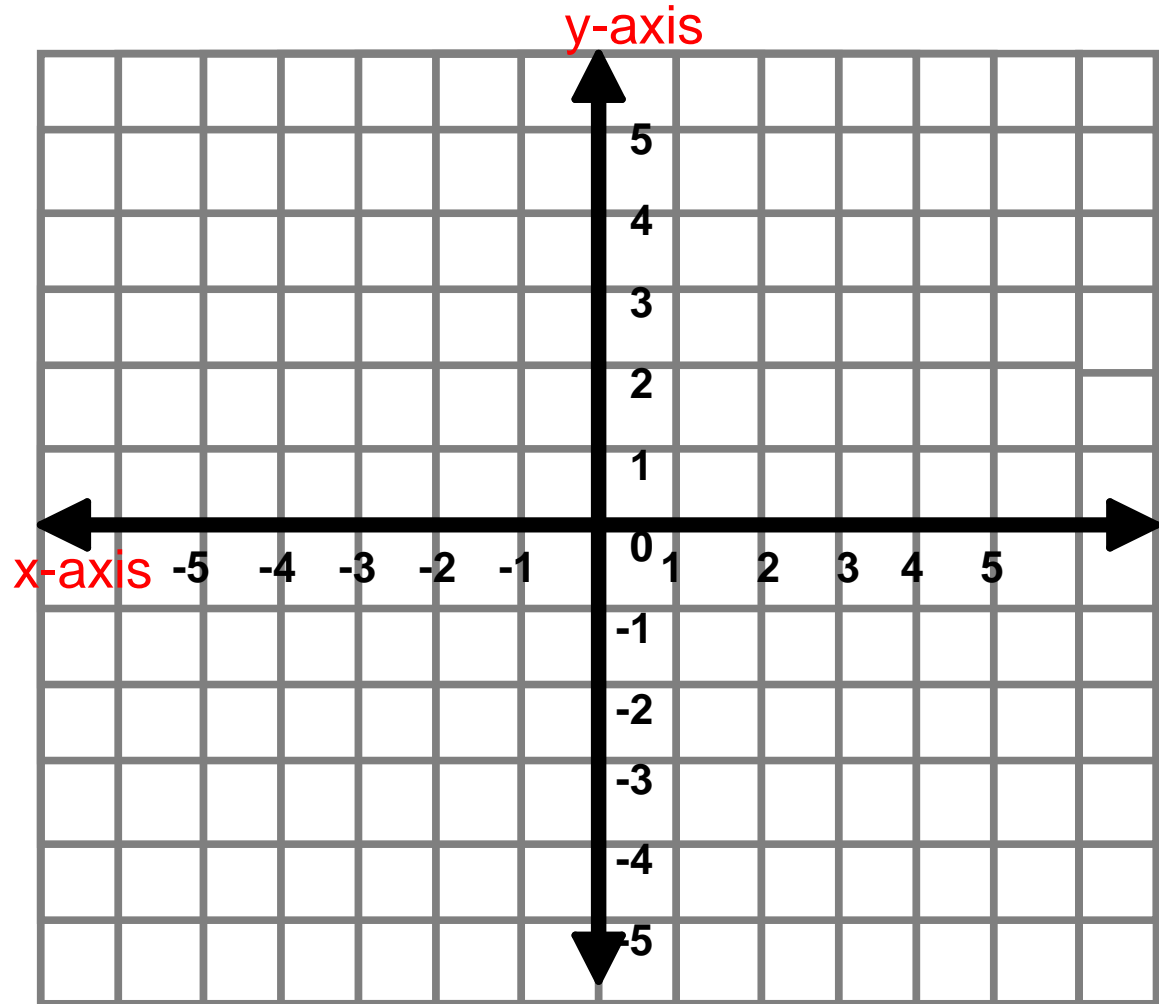
$$5) \quad y - 3 = -\frac{2}{5}x$$



Graphing Linear Equations

Graph the following equation using slope-intercept form.

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



Exploring

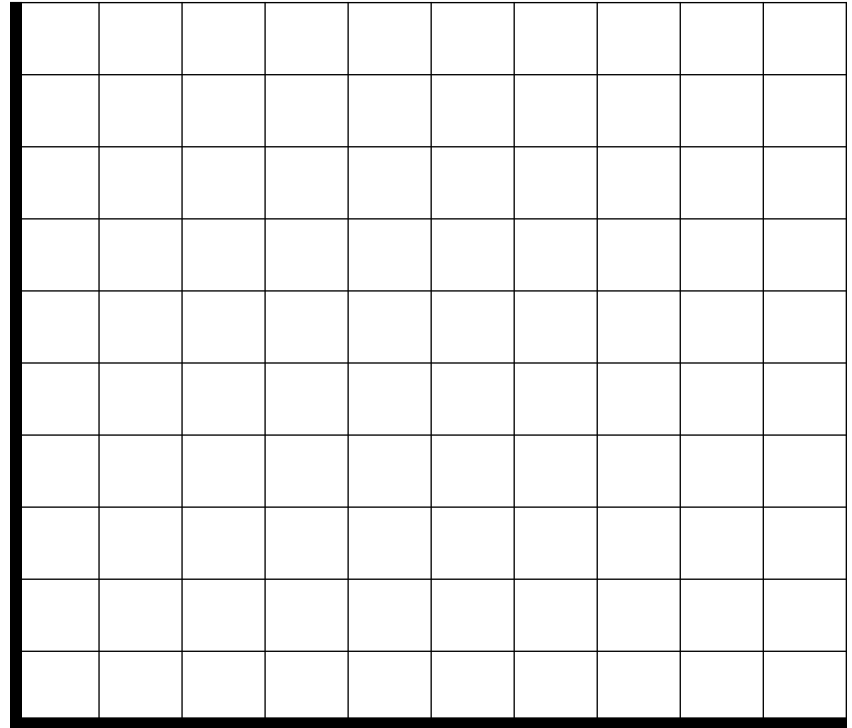
Write an equation in slope-intercept form and then graph.

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

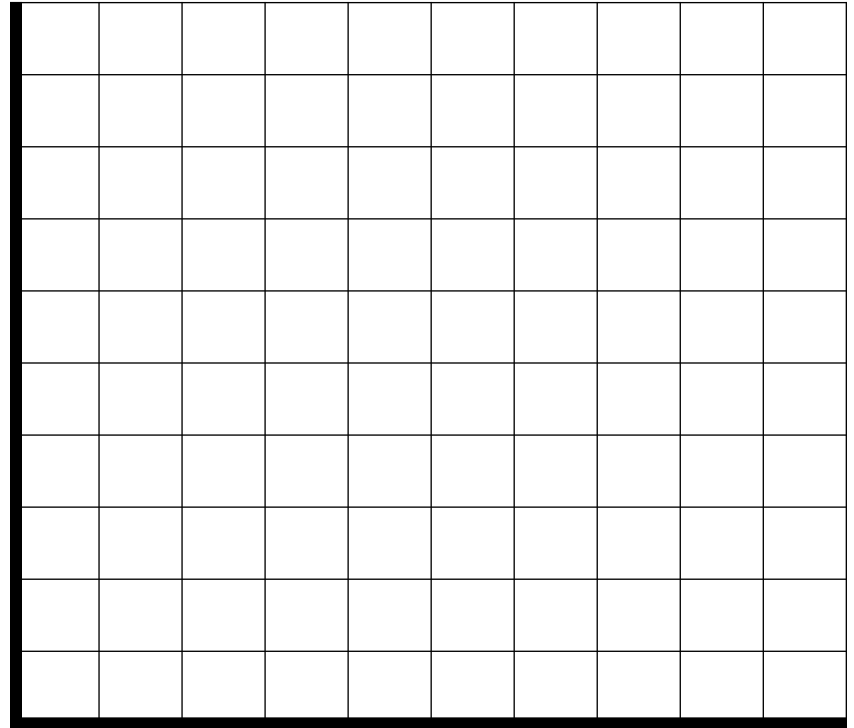
Write an equation in slope-intercept form and then graph.

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

a) Equation:

b) Slope = _____

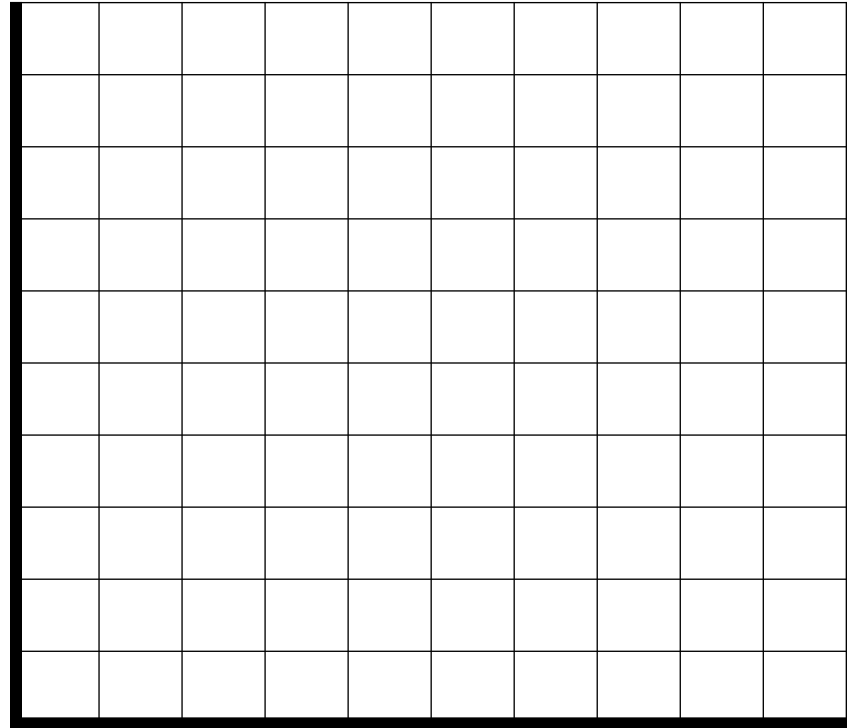
y-int = _____



Exploring

9) The cost of y (in dollars) of taking a taxi x miles is $y = 3x + 2$.

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.

