# Card #2

Find the slope of the line that passes through the pair of points.

$$(-1, 2) \ \& \ (0,6)$$

**Answer:**

$$\boldsymbol{y = \frac{5}{2}x + \frac{3}{2}}$$

# Card #11

Graph the equation.

$$6x + 4y = 24$$

**Answer:**

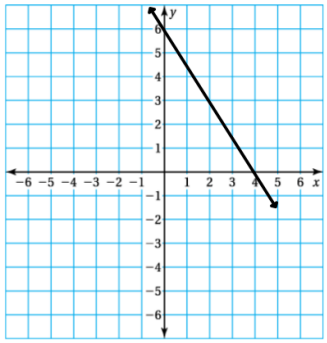
$$\boldsymbol{m = 4}$$

# Card #16

Write the equation in slope-intercept form.

$$2x + 8y = 40$$

**Answer:**




# Card #5

Find the x- and y-intercepts of the equation.

$$9x + 8y = 84$$

**Answer:**

$$y = -\frac{1}{4}x + 5$$

**Answer:**

$$\boldsymbol{x = 9\frac{1}{3} \quad y = 10\frac{1}{2}}$$

# Card #8

Write an equation in point-slope form that has the given slope and passes through the given point.

$$m = \frac{2}{3} \ \ (0, -3)$$

**Answer:**

$$\boldsymbol{y + 3 = \frac{2}{3}(x - 0)}$$

# Card #3

Graph the equation.

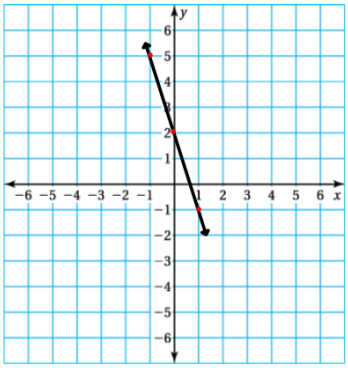
$$y - 5 = \ -3(\ x + 1)$$

# Card #6

Write an equation in slope-intercept form for the line that passes through the given point and is PERPENDICULAR to the given line.

$(7, -2)$ $y = 3x + 6$

**Answer:**




# Card #1

Write an equation in slope-intercept form that passes through the given points.

$(7, 3)$ & $(5, 1)$

**Answer:**

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

# Card #18

Find the slope of the line that passes through the pair of points.

$$\left(\frac{1}{3}, 3\right) \ \& \ \left(\frac{5}{3}, 7\right)$$

**Answer:**

$$\boldsymbol{y = 1x - 4}$$

# Card #7

Find the x- and y-intercepts of the equation.

$$-2x + 6y = -20$$

**Answer:**

$$\boldsymbol{m = 3}$$

# Card #17

**Answer:**

$$x = 10 \quad y = -3\frac{1}{3}$$

The math club is raising money for a competition. They need to raise $150. They decide to have a bake sale where they sell cookies for $0.75 each and cake for $1.25 a slice.

a) Write an equation to find how many types of each treat must be sold to raise $150.

b) Graph the equation. What are the x- and y-intercepts?

c) Use your graph to find three different combinations of treats sold that will raise $150.

# Card #4

**Answer:**

a) $.75x + 1.25y = 150$

b) $x = 200 \quad y = 120$

c) **200 cookies, 0 cake**
**0 cookies, 120 cakes**
**100 cookies, 60 cakes**

Write an equation in point-slope form that has the given slope and passes through the given point.

$$m = -2 \quad (3, -6)$$

# Card #15

**Answer:**

$$\boldsymbol{y + 6 = -2(x - 3)}$$

Write an equation in slope-intercept form for the line that passes through the given point and is PARALLEL to the given line.

$$(2, 7) \quad y = \frac{1}{2}x - 4$$

# Card #9

**Answer:**

$$\boldsymbol{y = \frac{1}{2}x + 6}$$

Write an equation in slope-intercept form that passes through the given points.

$$(1, 5) \ \& \ (-2, 8)$$

# Card #12

Write an equation in slope-intercept form for the line that passes through the given point and is PERPENDICULAR to the given line.

$$(2, 4) \quad y = -3$$

**Answer:**

$$\boldsymbol{y = -1x + 6}$$

# Card #14

Write an equation in slope-intercept form for the line that passes through the given point and is PARALLEL to the given line.

$$(-3, 6) \quad y = 4$$

**Answer:**

$$\boldsymbol{x = 2}$$

# Card #10

**Answer:**

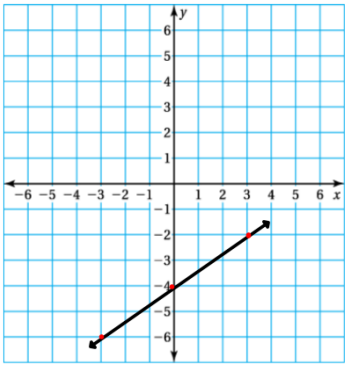
$$y = 6$$

Graph the equation.

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

# Card #13

**Answer:**




Write the equation in slope-intercept form.

$$10x = 4y - 6$$