

Practice

1. Write each equation in general form.

a) $y = 2x - 1$

$$y - \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = 0$$

$$\underline{\hspace{2cm}} + y + \underline{\hspace{2cm}} = 0$$

$$\underline{\hspace{2cm}} - y - \underline{\hspace{2cm}} = 0$$

In general form, the equation is: _____

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Move all terms to the _____ side.

Put the _____-term first.

Multiply by _____ so the

_____ -term is positive.

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

c) $y + 1 = -\frac{2}{5}(x - 2)$

In general form, the equation is:

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2. Find the slope of each line.

a) $4x + y - 1 = 0$

Write the equation in slope-intercept form.

$$4x + y - 1 = 0$$

$$y - 1 = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

Compare this equation with $y = mx + b$.

The slope of the line is: _____

Subtract _____ from each side.

Add _____ to each side.

b) $3x - 2y + 2 = 0$

The slope of the line is: _____

3. Find the x - and y -intercepts of each line.

a) $4x + 5y + 20 = 0$

To find the x -intercept,
substitute: _____

To find the y -intercept,
substitute: _____

The x -intercept is: _____

The y -intercept is: _____

b) $3x - 6y - 18 = 0$

To find the x -intercept,
substitute: _____

To find the y -intercept,
substitute: _____

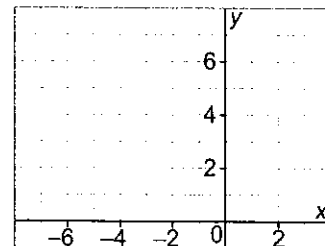
The x -intercept is: _____

The y -intercept is: _____

4. Use intercepts to graph $3x - 2y + 12 = 0$.

To find the x -intercept,
substitute: _____

To find the y -intercept,
substitute: _____



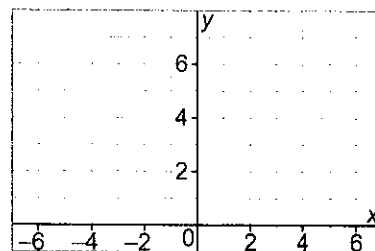
The x -intercept is: _____

The y -intercept is: _____

5. Write this equation in slope-intercept form,
then graph it: $3x + 4y - 16 = 0$

$3x + 4y - 16 = 0$

Solve for y .



In slope-intercept form,

the equation is: _____