

Name

4.4

Write Linear Equations

Alg I

in Standard Form

I can write equations in standard form.

Ch. 4 Quiz

h. 3/4 Test

Standard Form: $Ax + By = C$

Example 1:

1) $2(x - y = 3)$

$$2x - 2y = 6$$

$3(x - y = 3)$

$$3x - 3y = 9$$

Example 2:

2) $(x_1, y_1) = (3, -1)$ $(x_2, y_2) = (2, -3)$

$$m = \frac{-3 - (-1)}{2 - 3} = \frac{-2}{-1} = 2$$

$$y - (-1) = 2(x - 3)$$

$$y + 1 = 2(x - 3)$$

$$y + 1 = 2x - 6$$

$$\begin{array}{r} y = 2x - 7 \\ \cancel{2x} - \cancel{2x} \end{array}$$

$$\boxed{-2x + y = -7}$$

Example 3:

3) $(-8, -9)$

$$y = -9$$

$$x = -8$$

4) $(13, -5)$

$$y = -5$$

$$x = 13$$