

Name

4.1

Write Linear Equations in Slope-Intercept Form

Alg. I

I can write equations of lines.

Ch. 4 Quiz

Ch. 3/4 Test

Example 1/2:

1) $y = mx + b$

$m = 8$
 $b = -7$

$$y = 8x - 7$$

2) $y = mx + b$

$m = \frac{3}{4}$
 $b = -3$

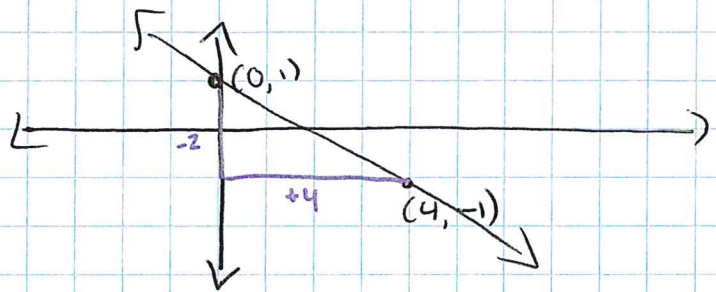
$$y = \frac{3}{4}x - 3$$

Example 3:

3) $m = \frac{-2}{4} = \frac{-1}{2}$

$b = 1$

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



*Complete skills practice, pg. 206, #

Example 4:

4) $f(0) = -2$
 $(0, -2)$

$f(8) = 4$
 $(8, 4)$

$m = \frac{4 - (-2)}{8 - 0} = \frac{6}{8} = \frac{3}{4}$
 $b = -2$

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

5) $f(-3) = 6$
 $(-3, 6)$

$f(0) = 5$
 $(0, 5)$

$m = \frac{5 - 6}{0 - (-3)} = \frac{-1}{3}$
 $b = 5$

$$y = -\frac{1}{3}x + 5$$

Example 5:

6) a) $C = 40t + 75$

b) $C = 40(10) + 75$

$C = 400 + 75$

$C = 475$ $\$475$