

## *Slope Intercept Form*

$$y = mx + b$$

Write the equation of the line in slope intercept form.

$$m = -\frac{3}{2} ; \text{ and the line passes through } \left(-\frac{5}{2}, 2\right).$$

$$y = m x + b$$

$$m = -\frac{3}{2}$$

$$\left(-\frac{5}{2}, 2\right)$$

$$y = m x + b$$

$$2 = \left(\quad\right) + b$$

$$2 = \text{---} + b$$

$$[2] = \left[\frac{15}{4} + b\right]$$

$$[2] = \left[\frac{15}{4}\right] + [b]$$

$$8 = 15 + 4b$$

$$8 = 15 + 4b$$

$$\frac{-7 = \quad 4b}{\quad}$$

$$\underline{-7 = 4b}$$

$$= b$$

$$y = m x + b$$

$$y = m x + b$$

$$(-5, -3)$$

$$(3, -2)$$

$x$	$y$
-5	-3
3	-2

$$m = \frac{\text{Change of } y}{\text{Change of } x} =$$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$P_1(-5, -3)$$

$$P_2(3, -2)$$

$$m = \frac{- ( )}{- ( )}$$

$$m = \underline{\hspace{2cm}}$$

$$m =$$

$$y = m x + b$$

$$(-5, -3)$$

$$(3, -2)$$

$$m = \frac{1}{8}$$

$$y = m x + b$$

$$= ( ) + b$$

$$= + b$$

$$[-2] = \left[ \frac{3}{8} + b \right]$$

$$[-2] = \left[ \frac{3}{8} \right] + [b]$$

$$-16 = 3 + 8b$$

$$-16 = 3 + 8b$$

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$$-19 = 8b$$

$$\underline{-19} = \underline{8b}$$

$$= b$$

$$y = m x + b$$