Slope Intercept Form

$$y = mx + b$$

Write the equation of the line in slope intercept form.

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

$$y = m\ x + b$$

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

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

$y = m\ x + b$

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

$2 = \frac{\quad}{\quad} + b$

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

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

$8 = 15 + 4b$

$8 = 15 + 4b$

$-7 = 4b$

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

$= b$

$y = m\ x + b$

$y = m\ x + b$

$(-5, -3)$

$(3, -2)$

x	y
-5	-3
3	-2

$m = \dfrac{Change of\ y}{Change of\ x} =$

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

$P_1(-5, -3)$

$P_2(3, -2)$

$m = \dfrac{-(\quad)}{-(\quad)}$

$m = \dfrac{\quad}{\quad}$

$m =$

$$y = m\ x + b$$

$(-5, -3)$

$(3, -2)$

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

$$y = m\ x + b$$

$$= (\ ) + b$$

$$= + b$$

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

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

$$-16 = 3 + 8b$$

$$-16 = 3 + 8b$$

$$-19 = 8b$$

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

$$= b$$

$$y = m\ x + b$$