

Parallel and Perpendicular Lines

Write the equation of the line:

Parallel to:
 $y = -3x + 2$
and goes through
 $(-6, 6)$

// Slope is: $m = -3$
 $\begin{matrix} (-6, 6) \\ x \quad y \end{matrix}$

$$y = mx + b$$

$$6 = -3(-6) + b$$

$$6 = 18 + b$$

$$\begin{array}{r} -18 \quad -18 \\ \hline \end{array}$$

$$-12 = b$$

So if $b = -12$ and
 $m = -3$,
your new equation
is

$$y = -3x - 12$$

Perpendicular to:
 $y = -3x + 2$
and goes through
 $(-6, 6)$

$\perp$ Slope is: $m = +\frac{1}{3}$
 $\begin{matrix} (-6, 6) \\ x \quad y \end{matrix}$

$$y = mx + b$$

$$6 = (\frac{1}{3})(6) + b$$

$$6 = \frac{6}{3} + b$$

$$6 = 2 + b$$

$$\begin{array}{r} -2 \quad -2 \\ \hline \end{array}$$

$$4 = b$$

So if $b = 4$ and
 $m = \frac{1}{3}$,
your new equation
is

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

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