M10 - 7.5 - Parallel and Perpendicular Slope HW

Find the parallel and perpendicular slope to the following slopes.

$m = 2$

$m = -3$

$m = \dfrac{-1}{2}$

Parallel: $m = 2$
Perpendicular: $m = -\dfrac{1}{2}$

$m = \dfrac{2}{3}$

$m = 0$

$m = undefined$

Find the slope of the line, and the slope of the line parallel and perpendicular to it.

$y = \dfrac{3}{4}x + 7$

$2x + 3y = 5$

$y - 2 = 3(x - 4)$

$y = 5$

$x + 2 = 0$

$y + 1 = -\dfrac{1}{2}(x + 2)$

A line passes through $(1,7)$ and $(-3,-1)$. What is the slope of a line parallel and perpendicular to this line.

M10 - 7.5 - Parallel/Perpendicular Lines HW

Find the value of "p" if the lines are parallel, and if the lines are perpendicular.

$m = \dfrac{p}{5}, m = 2$ Parallel   Perpendicular

$m = \dfrac{8}{p}, m = \dfrac{-1}{2}$ Parallel   Perpendicular

Are the following parallel, perpendicular, or neither?

$y = -2x + 1$
$y = 2x + 4$

$y = 3x + 5$
$y = \dfrac{-1}{3}x - 2$

$y = x + 9$
$y = x + 2$

Find the equation parallel to the following line, passing through the following point.

$y = 2x + 1, (3,5)$

Find the equation perpendicular to the following line, passing through the following point.

$y = 3x + 2, (6,-3)$