Perpendicular Lines Worksheets

Find the equation of a line perpendicular to the given equation and passing through the given point. Write your answer in slope-intercept form.

$y = -x + 3$ and $(-4, 4)$	$-x + 4y = -16$ and $(0, 2)$
$y = -\dfrac{2}{5}x - 2$ and $(-2, 4)$	$-5x + 2y = 6$ and $(2, 2)$
$-7x + 2y = 8$ and $(-4, -4)$	$y = \dfrac{1}{3}x + 3$ and $(-2, 0)$

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Find the equation of a line perpendicular to the given equation and passing through the given point. Write your answer in slope-intercept form.

$y = -x + 3$ and $(-4, 4)$ $y = x + 8$	$-x + 4y = -16$ and $(0, 2)$ $y = -4x + 2$
$y = -\dfrac{2}{5}x - 2$ and $(-2, 4)$ $y = \dfrac{5}{2}x + 9$	$-5x + 2y = 6$ and $(2, 2)$ $y = -\dfrac{2}{5}x + \dfrac{14}{5}$
$-7x + 2y = 8$ and $(-4, -4)$ $y = -\dfrac{2}{7}x - \dfrac{36}{7}$	$y = \dfrac{1}{3}x + 3$ and $(-2, 0)$ $y = -3x - 6$