Equation of a Line

Find an equation of a line whose slope and point passes through a line. Express the equation in slope-intercept form.

1) slope = $\dfrac{1}{2}$ and $(2, 3)$	2) slope = -1 and $(-5, 0)$
3) slope = 7 and $(4, -1)$	4) slope = $-\dfrac{2}{5}$ and $(3, 6)$
5) slope = 9 and $(-2, -4)$	6) slope = -3 and $(0, 1)$
7) slope = $\dfrac{3}{4}$ and $(8, 5)$	8) slope = 8 and $(-1, 3)$
9) slope = -2 and $(6, 6)$	10) slope = 4 and $(7, 2)$

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Answer key

Find an equation of a line whose slope and point passes through a line. Express the equation in slope-intercept form.

1) slope = $\dfrac{1}{2}$ and $(2, 3)$

$y = \dfrac{1}{2}x + 2$

2) slope = -1 and $(-5, 0)$

$y = -x - 5$

3) slope = 7 and $(4, -1)$

$y = 7x - 29$

4) slope = $-\dfrac{2}{5}$ and $(3, 6)$

$y = -\dfrac{2}{5}x + \dfrac{36}{5}$

5) slope = 9 and $(-2, -4)$

$y = 9x + 14$

6) slope = -3 and $(0, 1)$

$y = -3x + 1$

7) slope = $\dfrac{3}{4}$ and $(8, 5)$

$y = \dfrac{3}{4}x - 1$

8) slope = 8 and $(-1, 3)$

$y = 8x + 11$

9) slope = -2 and $(6, 6)$

$y = -2x + 18$

10) slope = 4 and $(7, 2)$

$y = 4x - 26$