Equation of a Line

Find an equation of a line passes through the given points. Express the equation in slope-intercept form.

1) $(-1, 4)$ and $(0, -1)$	2) $(9, 10)$ and $(-6, -8)$
3) $(3, -3)$ and $(5, 4)$	4) $(-1, -5)$ and $(-2, -1)$
5) $(5, 9)$ and $(7, 6)$	6) $(2, 0)$ and $(-3, 4)$
7) $(9, -11)$ and $(-9, 7)$	8) $(-1, -2)$ and $(4, 8)$
9) $(3, 1)$ and $(-2, -2)$	10) $(9, 8)$ and $(7, 6)$

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Answer key

Find an equation of a line passes through the given points. Express the equation in slope-intercept form.

1) (−1, 4) and (0, −1) y = −5x − 1	2) (9, 10) and (−6, −8) $y = \dfrac{6}{5}x - \dfrac{4}{5}$
3) (3, −3) and (5, 4) $y = \dfrac{7}{2}x - \dfrac{27}{2}$	4) (−1, −5) and (−2, −1) y = −4x − 9
5) (5, 9) and (7, 6) $y = -\dfrac{3}{2}x + \dfrac{33}{2}$	6) (2, 0) and (−3, 4) $y = -\dfrac{4}{5}x + \dfrac{8}{5}$
7) (9, −11) and (−9, 7) y = −x − 2	8) (−1, −2) and (4, 8) y = x
9) (3, 1) and (−2, −2) $y = \dfrac{3}{5}x - \dfrac{4}{5}$	10) (9, 8) and (7, 6) y = x − 1