

Equation of a Line | Slope-intercept Form

Write the equation of the line with the given slope and the y -intercept.

1) slope = -4 ; y -intercept = $\frac{7}{2}$

2) slope = $\frac{1}{3}$; y -intercept = $-\frac{4}{3}$

3) slope = 0 ; y -intercept = 11

4) slope = $-\frac{3}{8}$; y -intercept = -5

5) slope = $\frac{5}{7}$; y -intercept = $-\frac{9}{5}$

6) slope = -13 ; y -intercept = -2

7) slope = -1 ; y -intercept = 14

8) slope = 8 ; y -intercept = $\frac{1}{6}$

9) slope = $-\frac{2}{9}$; y -intercept = 12

10) slope = 4 ; y -intercept = -3

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Answer key

Write the equation of the line with the given slope and the y -intercept.

1) slope = -4 ; y -intercept = $\frac{7}{2}$

$$y = -4x + \frac{7}{2}$$

2) slope = $\frac{1}{3}$; y -intercept = $-\frac{4}{3}$

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

3) slope = 0 ; y -intercept = 11

$$y = 11$$

4) slope = $-\frac{3}{8}$; y -intercept = -5

$$y = -\frac{3}{8}x - 5$$

5) slope = $\frac{5}{7}$; y -intercept = $-\frac{9}{5}$

$$y = \frac{5}{7}x - \frac{9}{5}$$

6) slope = -13 ; y -intercept = -2

$$y = -13x - 2$$

7) slope = -1 ; y -intercept = 14

$$y = -x + 14$$

8) slope = 8 ; y -intercept = $\frac{1}{6}$

$$y = 8x + \frac{1}{6}$$

9) slope = $-\frac{2}{9}$; y -intercept = 12

$$y = -\frac{2}{9}x + 12$$

10) slope = 4 ; y -intercept = -3

$$y = 4x - 3$$
