

Equation of a Line | Slope-intercept Form

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

1) slope = $-\frac{7}{8}$; y -intercept = -3

2) slope = 10 ; y -intercept = 8

3) slope = $-\frac{1}{2}$; y -intercept = $\frac{5}{2}$

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

5) slope = 1 ; y -intercept = -9

6) slope = $-\frac{1}{6}$; y -intercept = 2

7) slope = 8 ; y -intercept = $\frac{4}{7}$

8) slope = -9 ; y -intercept = -16

9) slope = -6 ; y -intercept = 0

10) slope = $\frac{2}{9}$; y -intercept = $-\frac{1}{8}$

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Answer key

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

1) slope = $-\frac{7}{8}$; y -intercept = -3

$$y = -\frac{7}{8}x - 3$$

2) slope = 10 ; y -intercept = 8

$$y = 10x + 8$$

3) slope = $-\frac{1}{2}$; y -intercept = $\frac{5}{2}$

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

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

$$y = 5x - \frac{4}{3}$$

5) slope = 1 ; y -intercept = -9

$$y = x - 9$$

6) slope = $-\frac{1}{6}$; y -intercept = 2

$$y = -\frac{1}{6}x + 2$$

7) slope = 8 ; y -intercept = $\frac{4}{7}$

$$y = 8x + \frac{4}{7}$$

8) slope = -9 ; y -intercept = -16

$$y = -9x - 16$$

9) slope = -6 ; y -intercept = 0

$$y = -6x$$

10) slope = $\frac{2}{9}$; y -intercept = $-\frac{1}{8}$

$$y = \frac{2}{9}x - \frac{1}{8}$$
