

Finding the Slope of a Line Perpendicular to a Given Line

Find the slope of a line perpendicular to each given line.

1) $y = \frac{1}{4}x - 2$

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

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

4) $y = 3x + 5$

5) $y = \frac{2}{3}x + 1$

6) $3x + y = 5$

7) $8x - 3y = -12$

8) $y = -16$

9) $x + y = -2$

10) $2x - 5y = 25$

Answers to Finding the Slope of a Line Perpendicular to a Given Line

1) -4

2) $\frac{5}{3}$

3) $\frac{3}{8}$

4) $-\frac{1}{3}$

5) $-\frac{3}{2}$

6) $\frac{1}{3}$

7) $-\frac{3}{8}$

8) undefined

9) 1

10) $-\frac{5}{2}$