




Chapter 2: Equations and Inequalities

Slope and Intercepts

 Find the slope of each line.

1) $y = 2x - 8$, Slope = _____

2) $y = -6x + 3$, Slope = _____

3) $y = -x - 5$, Slope = _____

4) $y = -2x - 9$, Slope = _____

5) $y = 5 + 2x$, Slope = _____

6) $y = 1 - 8x$, Slope = _____

7) $y = -4x + 3$, Slope = _____

8) $y = -9x + 8$, Slope = _____

9) $y = -2x + 4$, Slope = _____

10) $y = 9x - 8$, Slope = _____

11) $y = \frac{1}{2}x + 4$, Slope = _____


12) $y = -\frac{2}{5}x + 7$, Slope = _____

13) $-x + 3y = 5$, Slope = _____

14) $4x + 4y = 6$, Slope = _____

15) $6y - 2x = 10$, Slope = _____

16) $3y - x = 2$, Slope = _____

 Find the slope of the line through each pair of points.

17) $(4, 4), (8, 12)$, Slope = _____

18) $(-2, 4), (0, 6)$, Slope = _____

19) $(6, -2), (2, 6)$, Slope = _____

20) $(-4, -2), (0, 6)$, Slope = _____

21) $(6, 2), (3, 5)$, Slope = _____

22) $(-5, 1), (-1, 9)$, Slope = _____

23) $(8, 4), (9, 6)$, Slope = _____

24) $(10, -1), (7, 8)$, Slope = _____

25) $(16, -3), (13, -6)$, Slope = _____

26) $(12, 5), (8, 1)$, Slope = _____

27) $(6, 6), (8, 10)$, Slope = _____

28) $(10, -1), (8, 1)$, Slope = _____



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Using Intercepts

Find the x and y intercepts for the following equations.

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

x-intercept: _____

y-intercept: _____

2) $y = 5x + 10$

x-intercept: _____

y-intercept: _____

3) $2x + 8y = -8$

x-intercepts: _____

y-intercepts: _____

4) $3x - 2y = 24$

x-intercepts: _____

y-intercepts: _____

5) $-3x + 5y = -15$

x-intercepts: _____

y-intercepts: _____

6) $8x - 2y = 10$

x-intercepts: _____

y-intercepts: _____

7) $5x - 3y = 18$

x-intercepts: _____

y-intercepts: _____

8) $9x - 2y = 24$

x-intercepts: _____

y-intercepts: _____

9) $-4x + 2y = 24$

x-intercepts: _____

y-intercepts: _____

10) $8x + 4y = -40$

x-intercepts: _____

y-intercepts: _____

