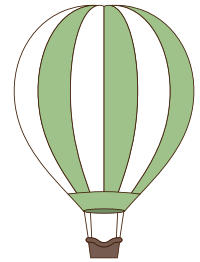


SLOPE REVIEW



Remember that the slope of a line is a number that describes the steepness of the line. You can find the slope of a line when you have an equation in slope-intercept form:

$$y = mx + b$$

↑
slope

You can also find the slope of a line by calculating the rise over the run, or the change in y over the change in x :

$$\text{slope} = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$$

Practice! Find the slope of each line represented by the equation.

1 $y = \frac{2}{3}x + 7$

Slope = $\frac{2}{3}$

2 $y = -5x + 9$

Slope = -5

3 $y = \frac{3}{5}x - 1$

Slope = $\frac{3}{5}$

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

Slope = $-\frac{1}{4}$

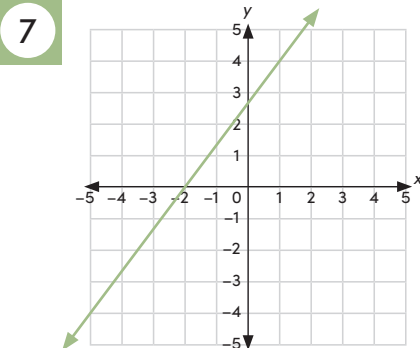
5 $y = 6 + 8x$

Slope = 8

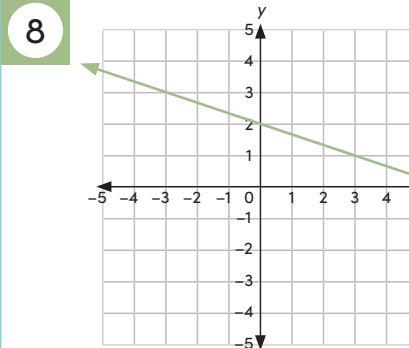
6 $y = 2$

Slope = 0

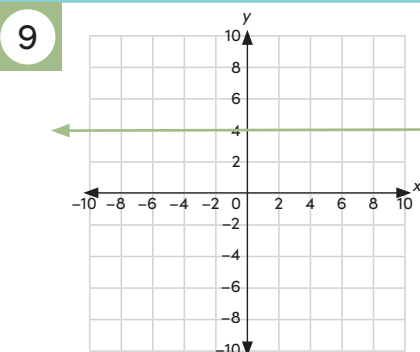
Try it! Find the slope of each line. Simplify your answer and write it as a proper fraction, improper fraction, or integer.



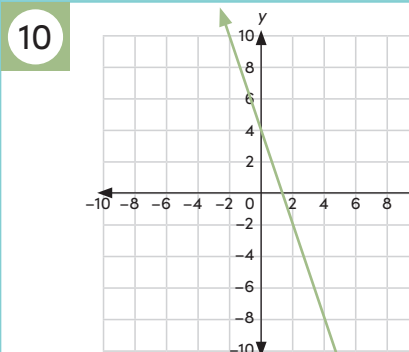
Slope = $\frac{4}{3}$



Slope = $-\frac{1}{3}$



Slope = 0



Slope = -3

SLOPE REVIEW

Keep going! Find the slope of the line that passes through each set of points. Simplify your answer and write it as a proper fraction, improper fraction, or integer.

11 (2, 5) and (7, 8)

Slope = $\frac{3}{5}$

12 (4, 1) and (5, 3)

Slope = 2

13 (1, 8) and (3, 8)

Slope = 0

14 (4, 5) and (2, -9)

Slope = 7

15 (-5, 7) and (-1, 12)

Slope = $\frac{5}{4}$

16 (-1, 7) and (3, -5)

Slope = -3

17 (-4, 9) and (2, 1)

Slope = $-\frac{4}{3}$

18 (-6, -3) and (-4, 2)

Slope = $\frac{5}{2}$

19 (-10, -4) and (-6, -8)

Slope = -1

Challenge! Follow the directions to write equations and draw lines with the given slopes. **Equations and lines may vary.**

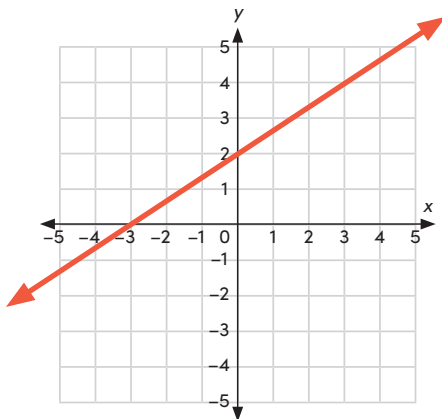
20 Write an equation with a slope of 4.

$y = 4x - 3$

21 Write an equation with a slope of $-\frac{2}{5}$.

$y = -\frac{2}{5}x - 8$

22 Draw a line with a slope of $\frac{2}{3}$.



23 Draw a line with a slope of -2.

