

# FINDING SLOPE FROM A GRAPH

The slope of a line is a number that helps you understand how steep the line is. You can find the slope of a line by dividing the change in  $y$ , or rise, by the change in  $x$ , or run:

$$\text{Slope} = \frac{\text{change in } y}{\text{change in } x} = \frac{\text{rise}}{\text{run}}$$



Let's try it! Find the slope of the line on the graph below.

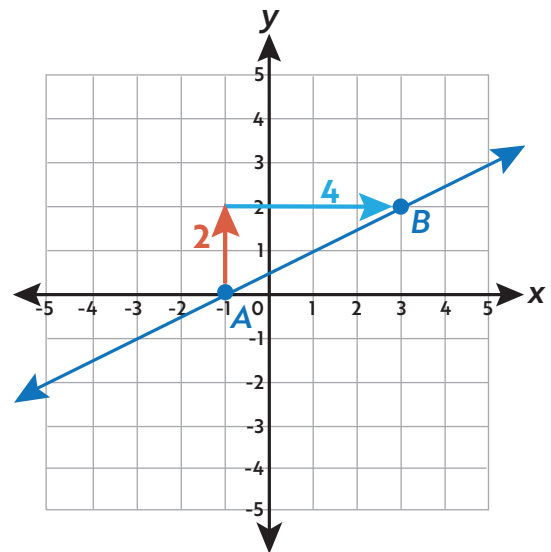
Pick two points on the line that are easy to identify.

$A$  is at  $(-1, 0)$ .  $B$  is at  $(3, 2)$ .

To move from point  $A$  to point  $B$ , first go up 2 units. The rise is **2**. Then go to the right 4 units. The run is **4**.

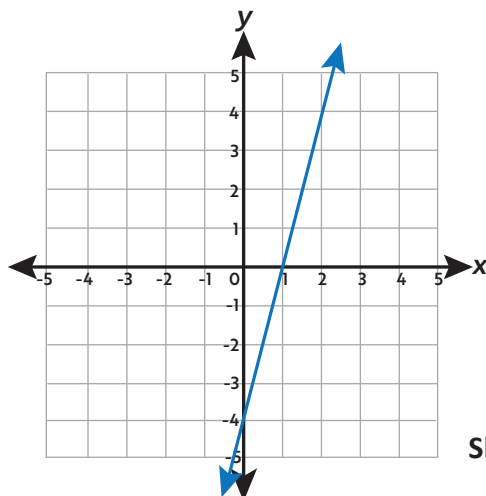
Write the slope. Make sure to simplify your answer.

$$\text{Slope} = \frac{\text{rise}}{\text{run}} = \frac{2}{4} = \frac{1}{2}$$

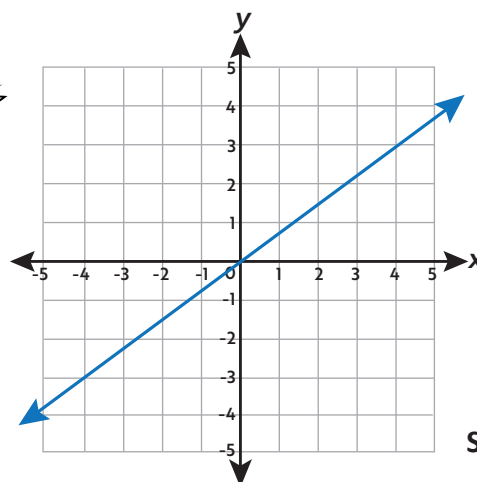


Note that sometimes slopes will be negative! This will happen if your rise is negative (you move down instead of up) or your run is negative (you move left instead of right).

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



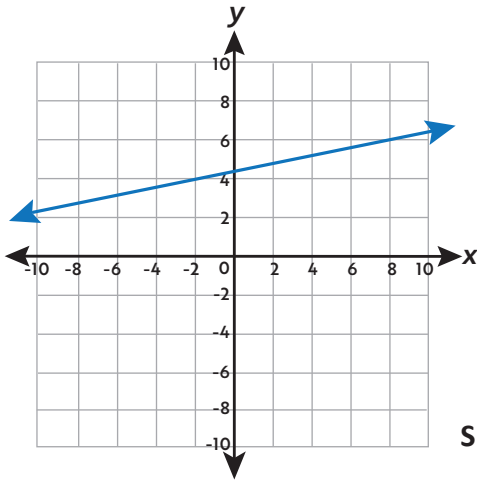
Slope = 4



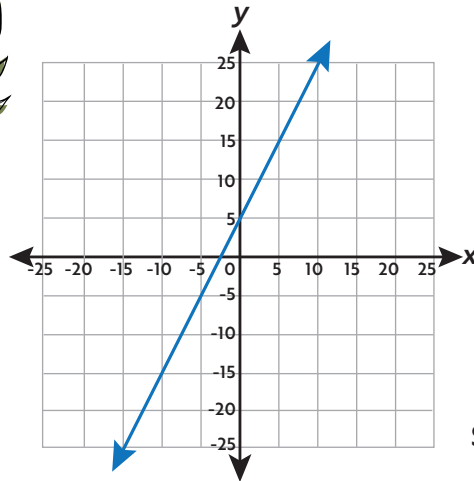
Slope =  $\frac{3}{4}$

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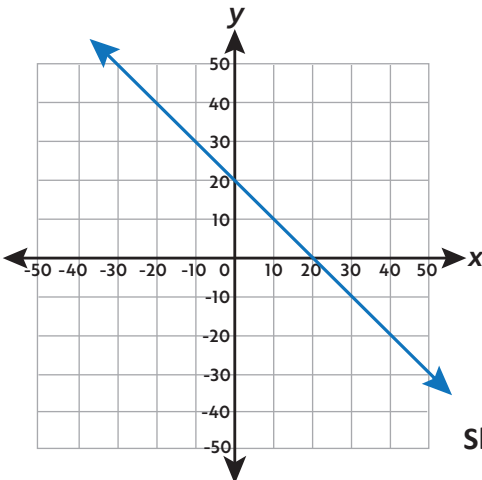
Find the slope of each line below. Simplify your answer and write it as a proper fraction, improper fraction, or integer.



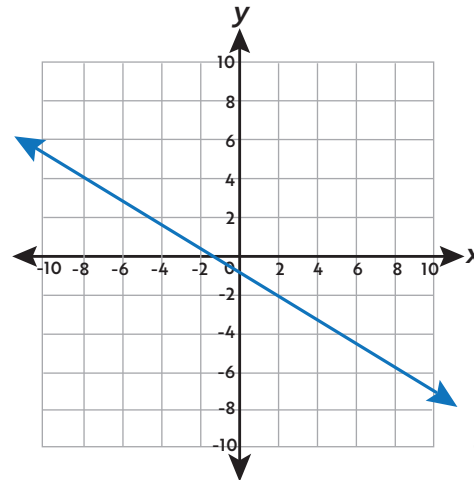
Slope =  $\frac{1}{5}$



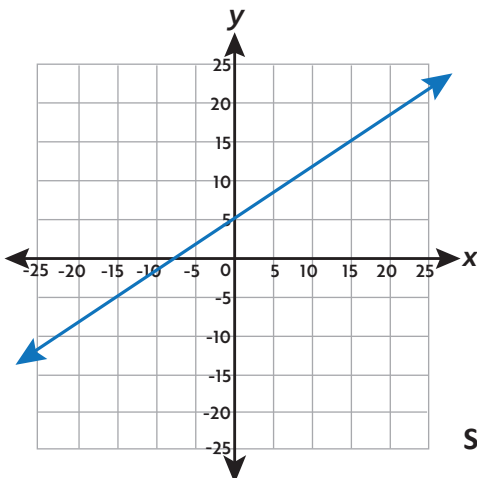
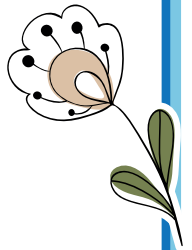
Slope =  $2$



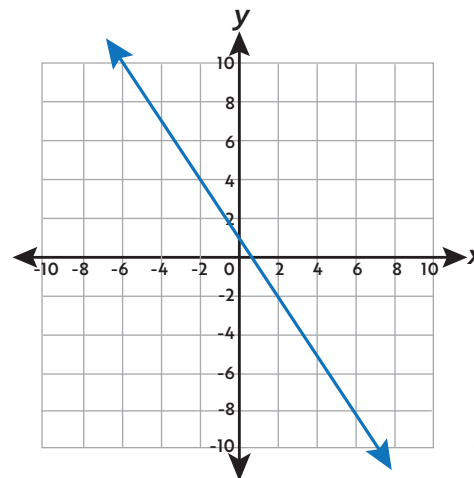
Slope =  $-1$



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



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



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