

Name _____

Key

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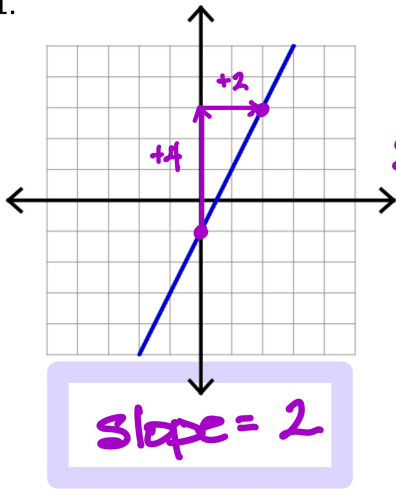
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Calculating Slope From a Graph or 2 Coordinate Pairs

Find slope using a graph. (Make sure to select points with whole number coordinates.)

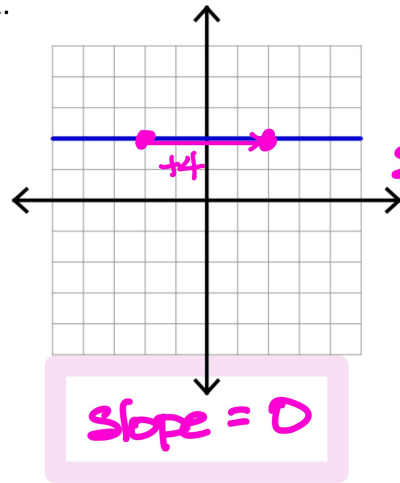
Remember: Slope = $\frac{\Delta y}{\Delta x}$ This should be written for every problem where you have to calculate slope.

1.



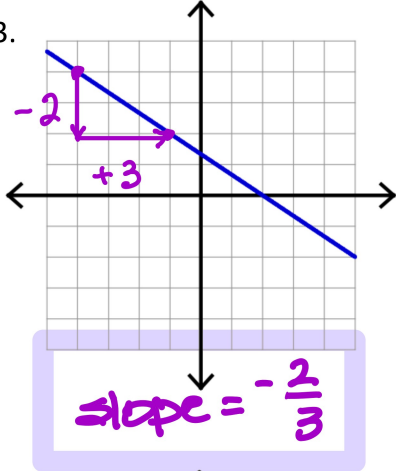
$$\begin{aligned} \text{Slope} &= \frac{\Delta y}{\Delta x} \\ &= \frac{4}{2} \\ &= 2 \end{aligned}$$

2.



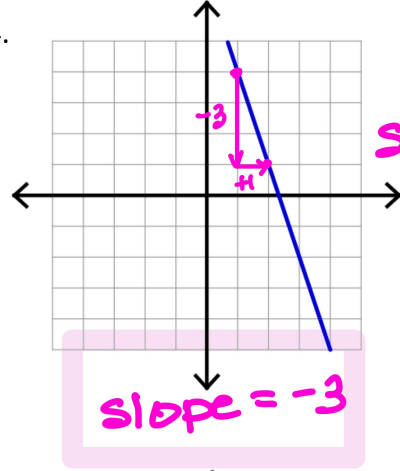
$$\begin{aligned} \text{slope} &= \frac{\Delta y}{\Delta x} \\ &= \frac{0}{4} \\ &= 0 \end{aligned}$$

3.



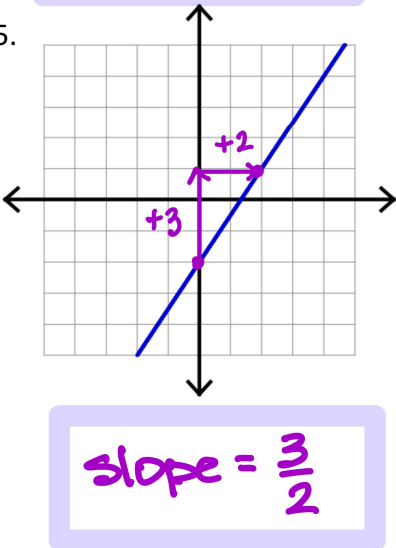
$$\begin{aligned} \text{Slope} &= \frac{\Delta y}{\Delta x} \\ &= \frac{-2}{3} \end{aligned}$$

4.



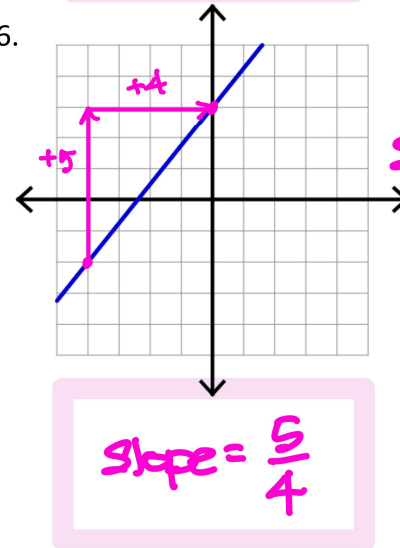
$$\begin{aligned} \text{slope} &= \frac{\Delta y}{\Delta x} \\ &= \frac{-3}{1} \\ &= -3 \end{aligned}$$

5.



$$\begin{aligned} \text{Slope} &= \frac{\Delta y}{\Delta x} \\ &= \frac{3}{2} \end{aligned}$$

6.



$$\begin{aligned} \text{slope} &= \frac{\Delta y}{\Delta x} \\ &= \frac{5}{4} \end{aligned}$$

Find the slope between two points. Show your thinking!

Remember: Slope = $\frac{\Delta y}{\Delta x}$ This should be written for every problem where you have to calculate slope.

7. (1, -19), (-2, -7)

$$-3 \begin{array}{l} \swarrow 1, -19 \\ \searrow -2, -7 \end{array} \nearrow +12$$

$$\frac{\Delta y}{\Delta x} = \frac{12}{-3} = -4$$

$$\text{slope} = -4$$

8. (-4, 7), (-6, -4)

$$+2 \begin{array}{l} \swarrow -6, -4 \\ \searrow -4, 7 \end{array} \nearrow +11$$

$$\frac{\Delta y}{\Delta x} = \frac{11}{2}$$

$$\text{slope} = \frac{11}{2}$$

9. (20, 8), (9, 16)

$$+11 \begin{array}{l} \swarrow 9, 16 \\ \searrow 20, 8 \end{array} \nearrow -8$$

$$\frac{\Delta y}{\Delta x} = \frac{-8}{11}$$

$$\text{slope} = \frac{-8}{11}$$

10. (3, 0), (-11, -15)

$$-14 \begin{array}{l} \swarrow 3, 0 \\ \searrow -11, -15 \end{array} \nearrow -15$$

$$\frac{\Delta y}{\Delta x} = \frac{-15}{-14} = \frac{15}{14}$$

$$\text{slope} = \frac{15}{14}$$