

Warm Up

9/16

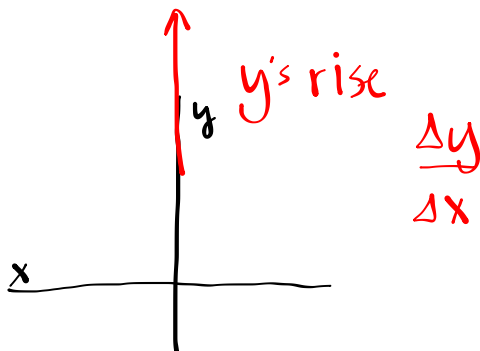
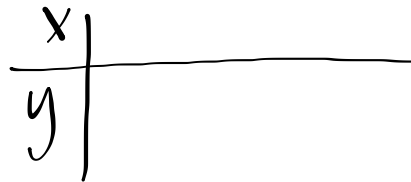
If you drew a line between the points
(4, 3) and (7, 10)
what would be the slope of the line?

(You can do this without drawing the line!)

$$\frac{\Delta y}{\Delta x} = \frac{7}{3}$$

$$\begin{array}{cccc} \Delta x & x & y & \Delta y \\ +3 & \left\langle \begin{array}{c} 4, 3 \\ 7, 10 \end{array} \right\rangle & & +7 \end{array}$$

Reminder: (x, y) alphabetical



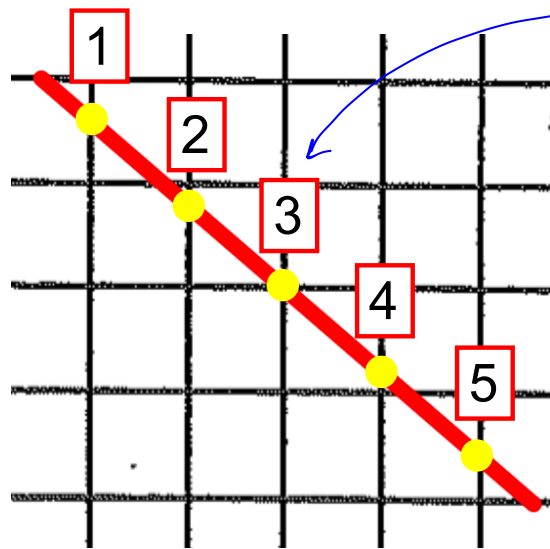
Homework Questions?

Correct your work with a *different color* pen.
 (Don't erase your incorrect answer, just draw a line through it.)

<p>① $4/3$</p>	<p>② -2</p>	<p>③ $-3/5$</p>
<p>④ 3</p>	<p>⑤ $-1/4$</p>	<p>⑥ 0</p>
<p>⑦ (2, 1); (5, 3) $2/3$</p> <p>⑧ (8, 3); (2, 5) $-1/3$</p> <p>⑨ (1, -4); (6, -2) $2/5$</p> <p>⑩ (-3, 1); (-7, 4) $-3/4$</p>	<p>⑪ (9, 2); (3, -1) $1/2$</p> <p>⑫ (-5, 8); (-4, 2) 6</p> <p>⑬ (0, -1); (4, -7) $-3/2$</p> <p>⑭ (1, -1); (-2, -6) $5/3$</p>	<p>⑮ (-4, -8); (-2, 0) 4</p> <p>⑯ (-3, -3); (0, 0) 1</p> <p>⑰ (2, 5); (9, 1) $4/7$</p> <p>⑱ (0, 0); (-2, 7) $-7/2$</p>

$$\frac{\Delta y}{\Delta x} = \frac{-3}{2} = -\frac{3}{2} = \frac{3}{-2}$$

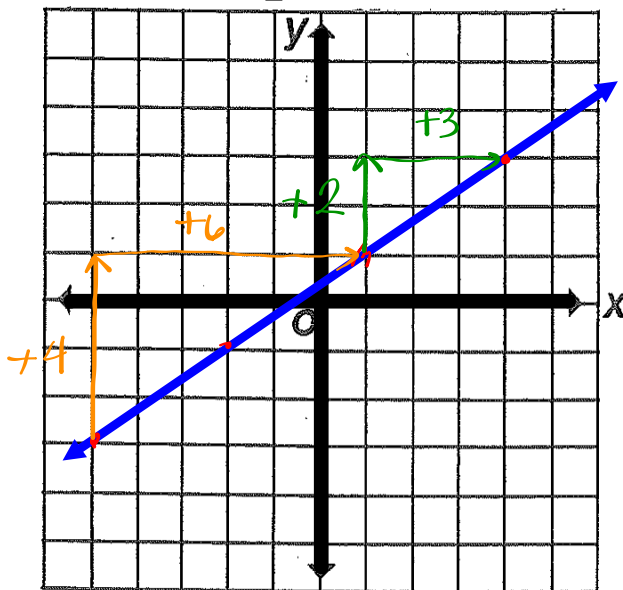
How do we pick good points to calculate slope from a graph?



Best point to use

We need to find points where the coordinates are **whole numbers**.

Let's find the slope of the blue line.



$$\frac{\Delta y}{\Delta x} = \frac{2}{3}$$

$$\frac{\Delta y}{\Delta x} = \frac{4}{6} = \frac{2}{3}$$

Doesn't matter which 2 points you pick!

Name _____

Classwork

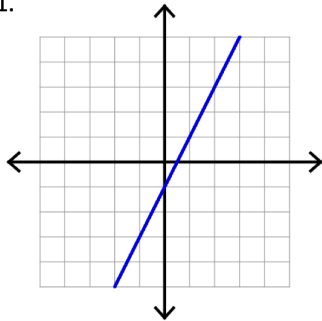
Date _____

Calculating Slope From a Graph or 2 Coordinate Pairs

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

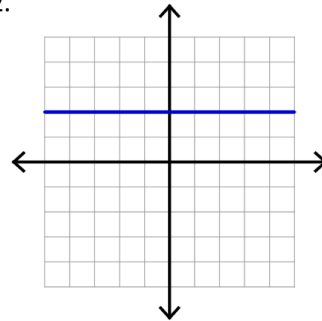
Remember: Slope = $\frac{\Delta y}{\Delta x}$ This should be written for every problem where you have to calculate slope.

1.

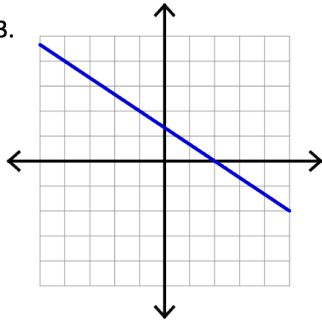


$\frac{\Delta y}{\Delta x}$

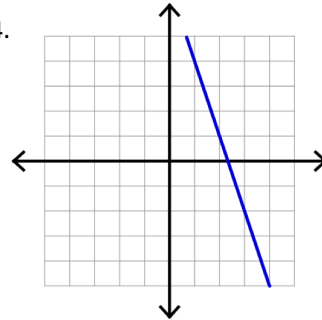
2.



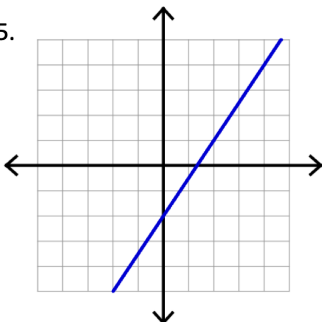
3.



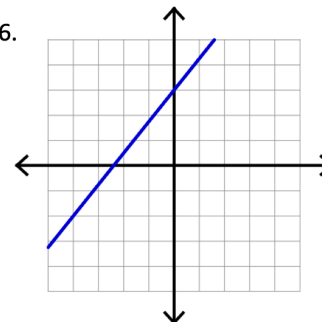
4.



5.



6.



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)

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

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

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

Match-A-Slope

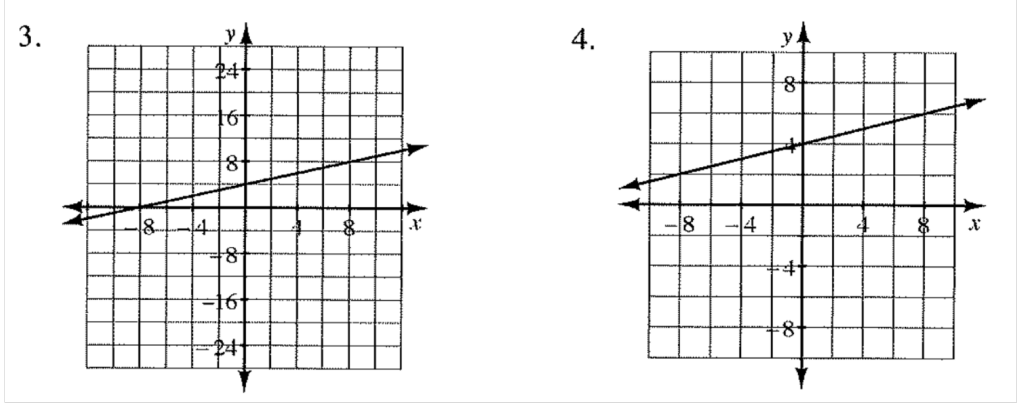
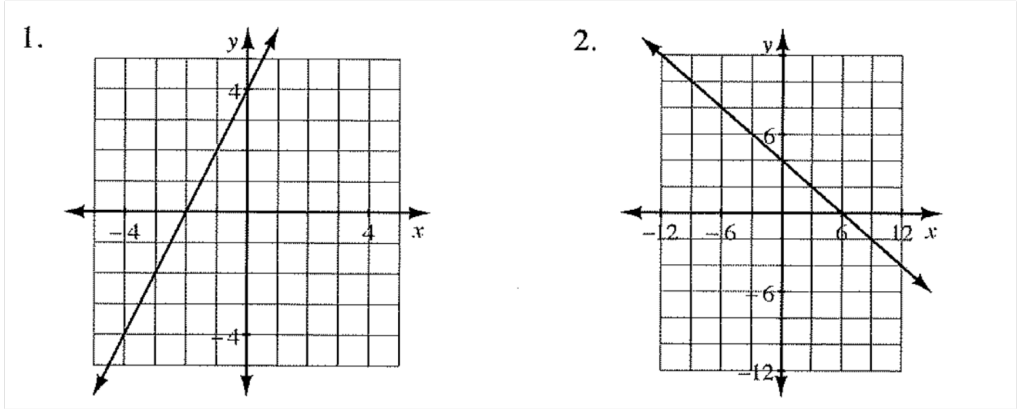
Match the following graphs with their slopes. *Pay special attention to the scaling on each set of axes.* Show your calculations to find each slope.

a. $slope = \frac{1}{4}$

b. $slope = \frac{1}{2}$

c. $slope = 2$

d. $slope = -\frac{2}{3}$



Homework

Finish Slope Practice Worksheet