Warm Up

9/15

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

(You can do this without drawing the line!)

Every time you calculate slope I should see this

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

$+3 \left\langle \begin{matrix} 4, 10 \\ 7, 3 \end{matrix} \right\rangle -7$

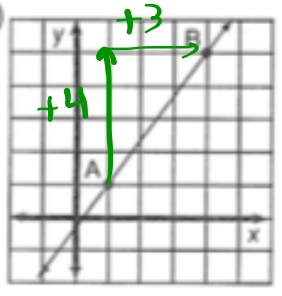
$\frac{\Delta y}{\Delta x} = \frac{-7}{3}$

Homework Questions?

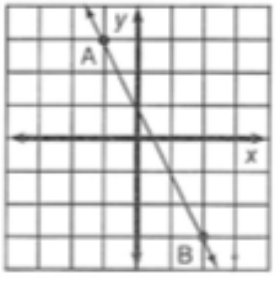
Correct your work with a different color pen.

(Don't erase your incorrect answer, just draw a line through it.)

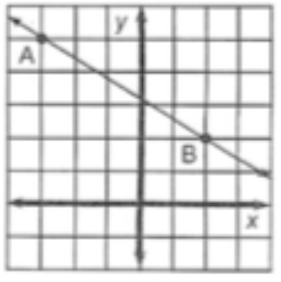
① 4/3



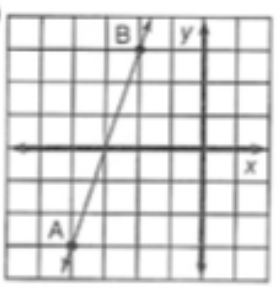
② –2



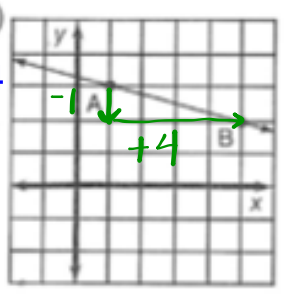
③ –3/5



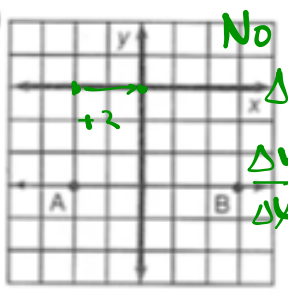
④ 3



⑤ –1/4



⑥ 0



⑦ (2, 1); (5, 3) 2/3

⑧ (8, 3); (2, 5) –1/3

⑨ (1, –4); (6, –2) 2/5

⑩ (–3, 1); (–7, 4) –3/4

⑪ (9, 2); (3, –1) 1/2

⑫ (–5, 8); (–4, 2) 6

⑬ (0, –1); (4, –7) –3/2

⑭ (1, –1); (–2, –6) 5/3

⑮ (–4, –8); (–2, 0) 4

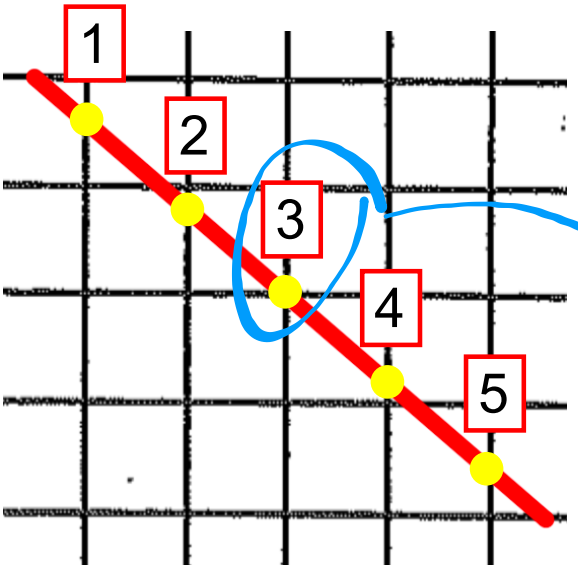
⑯ (–3, –3); (0, 0) 1

⑰ (2, 5); (9, 1) 4/7

⑱ (0, 0); (–2, 7) –7/2

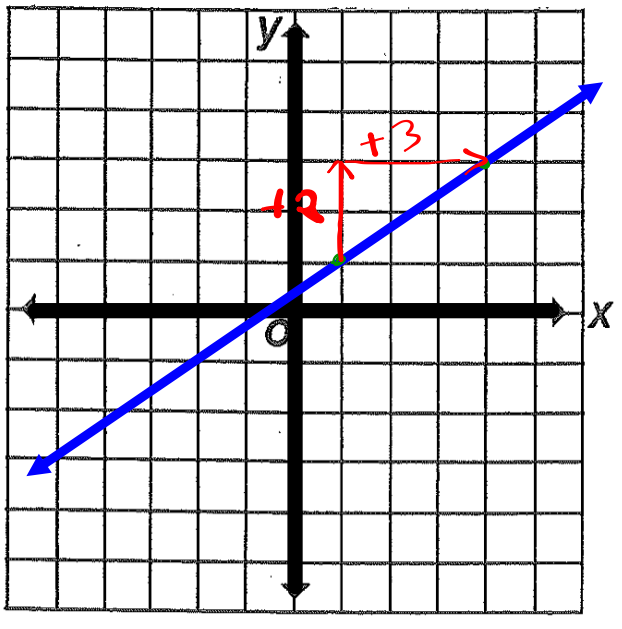
How do we pick good points to calculate slope from a graph?

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



Which one of these would be a "good" point to use?

Let's find the slope of the blue line.



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

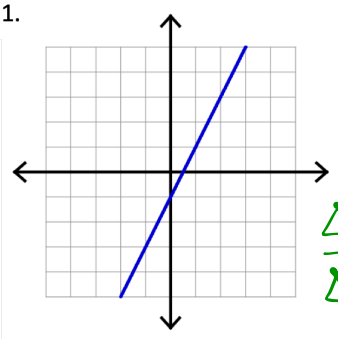
Name _____ **Classwork** Date _____

Calculating Slope From a Graph or 2 Coordinate Pairs

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

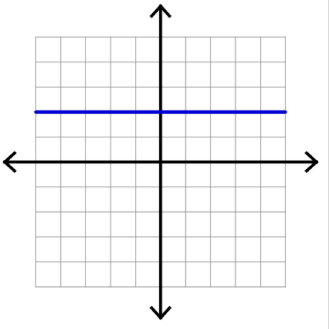
Remember: Slope $= \frac{\Delta y}{\Delta x}$ This should be written for every problem where you have to calculate slope.

1.



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

2.



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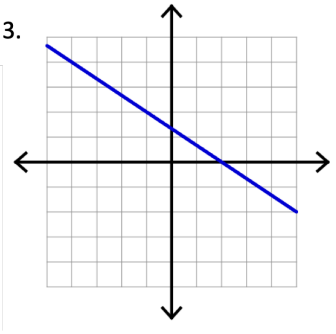
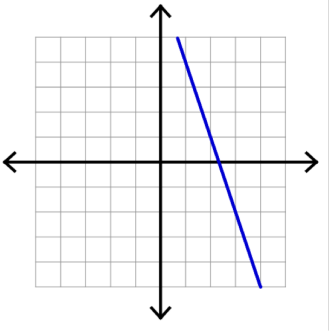
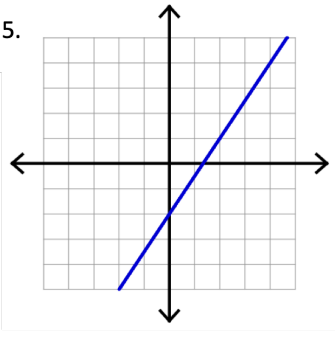


4.



5.



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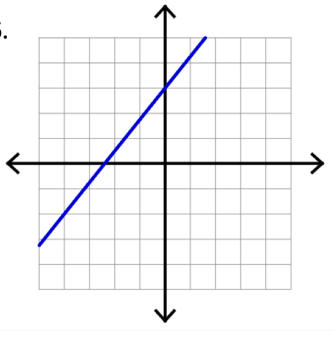


Find the slope between two points. Show your thinking!

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

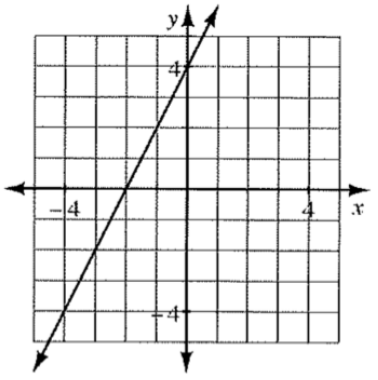
7. (1, −19), (−2, −7)	8. (−4, 7), (−6, −4)
9. (20, 8), (9, 16)	10. (3, 0), (−11, −15)

Match-A-Slope

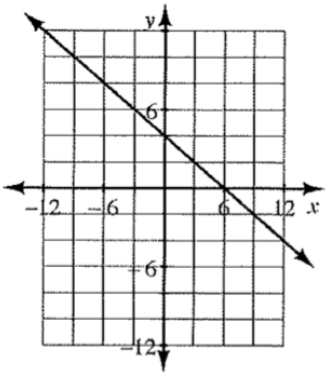
Match the following graphs with their slopes. ***Pay special attention to the scaling on each set of axes***. Show your calculations to find each slope.

a. $slope = \frac{1}{4}$ b. $slope = \frac{1}{2}$ c. $slope = 2$ d. $slope = -\frac{2}{3}$

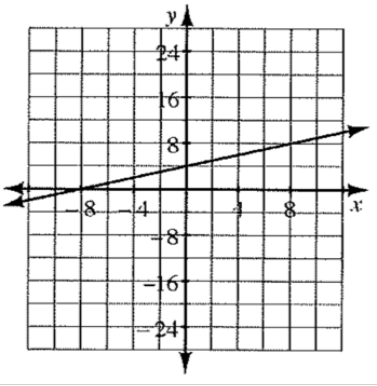
1.



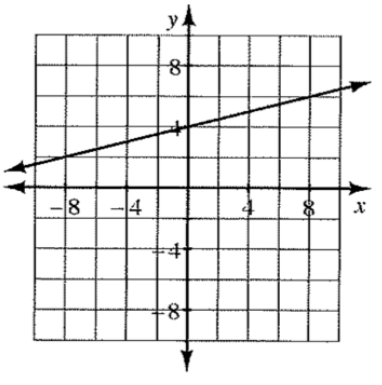
2.



3.



4.



Homework

Finish Slope Practice Worksheet