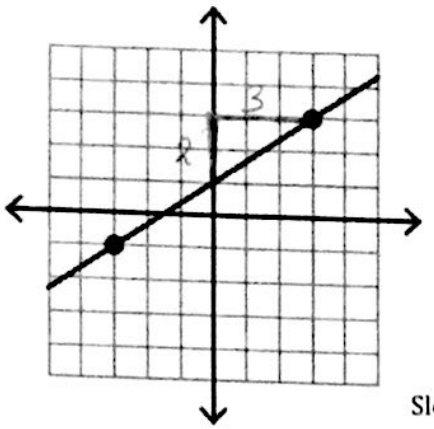
Math 8 Slope Unit 10 Review

Name Key

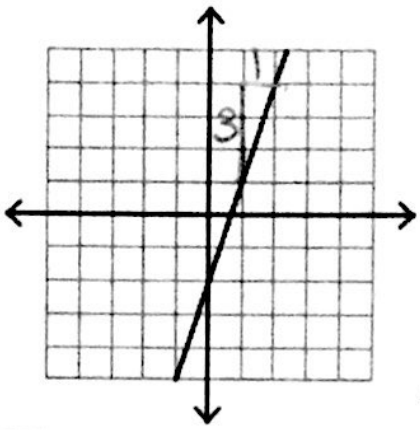
Find the slope of each line. **SHOW YOUR WORK!**

1.



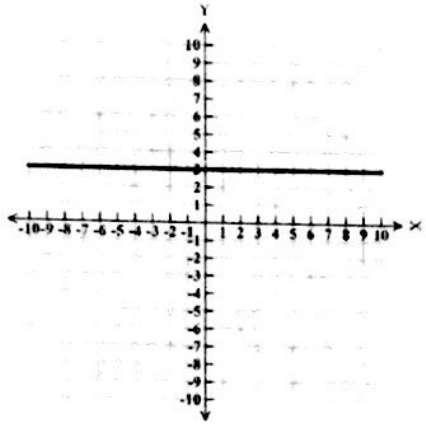
Slope: 2/3

2.



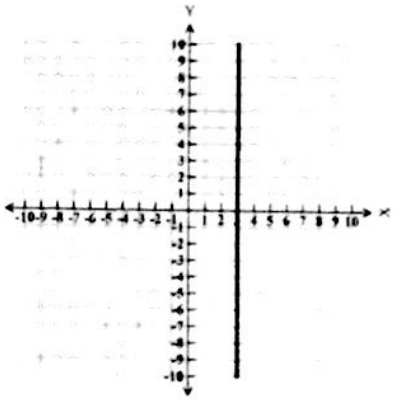
Slope: 3

3.



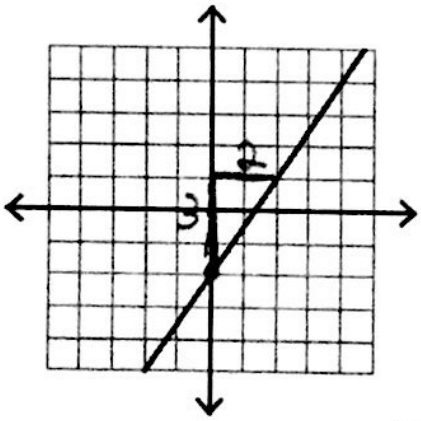
m = 0

4.



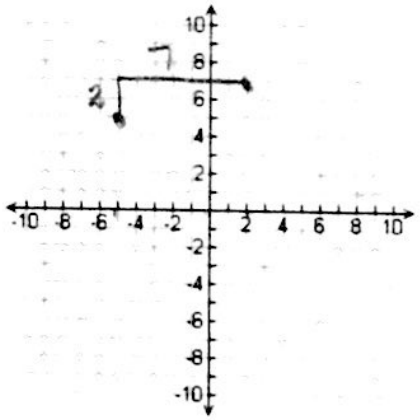
m = Undefined

5.



m = 3/2

6. Graph the points (-5 , 5) & (2 ,7) and find the slope of the line.



m = 2/7

Find the slope of the line for each pair of points. **SHOW YOUR WORK!**

7. (1, 0) and (3, 6)

$\frac{6-0}{3-1} = \frac{6}{2} = 3$

Slope 3

8. (-2, 1) and (2, 3)

$\frac{3-1}{2+2} = \frac{2}{4} = \frac{1}{2}$

Slope 1/2

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(2, -1) and (6, 1)

$\frac{1+1}{6-2} = \frac{2}{4} = \frac{1}{4}$

Slope 1/4

10. (2, 3) and (4, 3)

$\frac{3-3}{4-2} = \frac{0}{2}$

Slope 0

11. (3, 1) and (0, 3)

$\frac{3-1}{0-3} = \frac{2}{-3}$

m = -2/3

12. (2, -3) and (2, 4)

$\frac{4+3}{2-2} = \frac{7}{0}$

m = undefined

Given the following equations, answer questions #13-19

y = 5x **y = -2x** **y = x** **y = ½ x**

13. What is the slope of the line **y = 5x**? m = 5

14. What is the slope of the line **y = -2x**? m = -2

15. What is the slope of the line **y = x**? m = 1

16. What is the slope of the line **y = ½x**? m = 1/2

17. Which equation has the steepest graph? $y = 5x$

18. Which equation has the flattest graph? $y = 1/2\,x$

19. Which equation(s) have graphs that slant upwards from left to right? $y = 5x$ $y = x$ $y = 1/2\,x$

20.

Time (hours)	Distance (miles)
4	300
6 (+2)	340 (+40)
8 (+2)	380 (+40)
10 (+2)	420 (+40)

Find the constant rate of change (slope) from the table above.

$\frac{40}{2} = \frac{20}{1}$

Answer: 20

21. How is the graph of y = 3x ***similar to*** the graph of y = ½x?

- Both positive
- Both go through the origin.

22. How is the graph of y = 3x ***different from*** the graph of y = ½x?

- Different Slope