

Name: _____

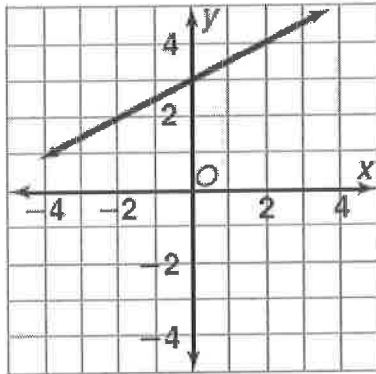
Date: _____

Period: _____

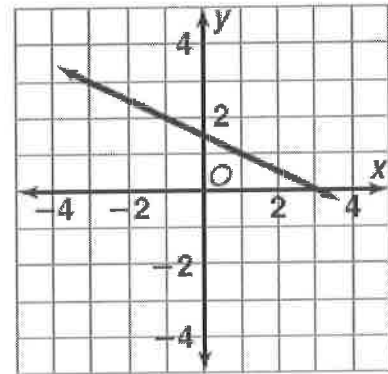
Slope

The rate of change in a linear relationship is known as **slope**. This measure of steepness is one of the most important properties of a straight line.

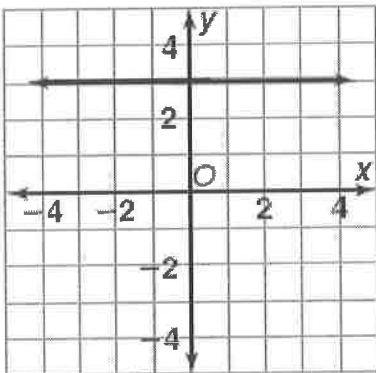
Lines with an increasing rate of change have a **positive** slope:



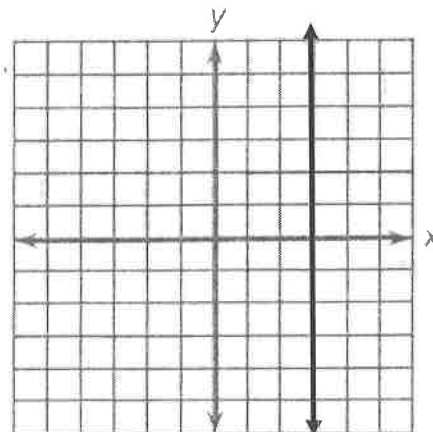
Lines with a decreasing rate of change has a **negative** slope:



Lines with a constant rate of change have **zero** slope:



Vertical lines have an **undefined** slope.



A. What do the coordinates/points of lines with zero slope have in common?

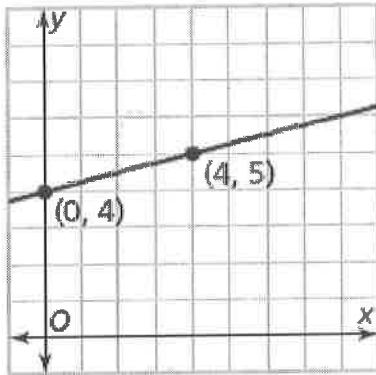
B. What do the coordinates/points of lines with an undefined slope have in common?

Slope

I. Slope from Graphs

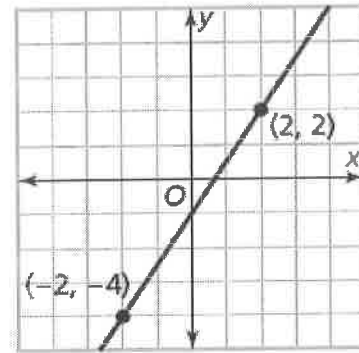
Identify the slope for each graph below.

1.



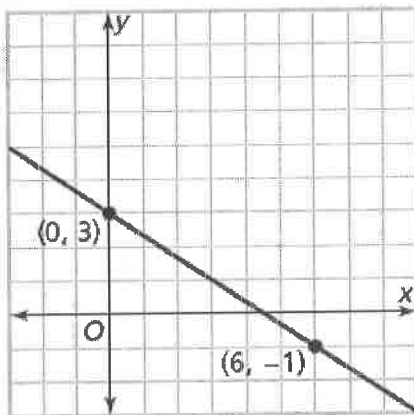
Slope = _____

2.



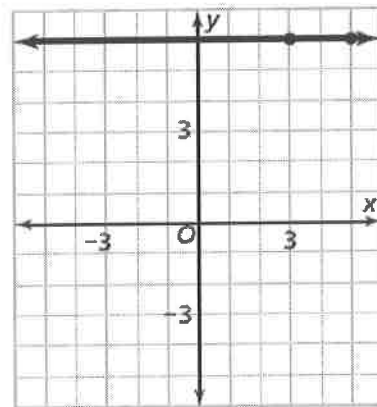
Slope = _____

3.



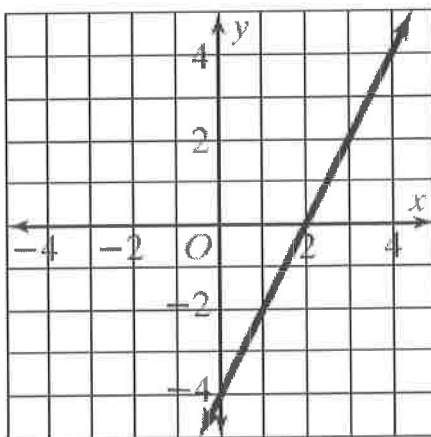
Slope = _____

4.



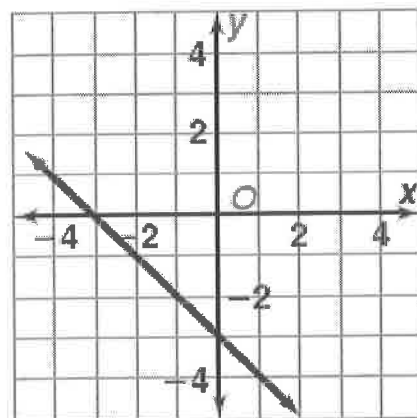
Slope = _____

5.



Slope = _____

6.



Slope = _____

II. Slope from Tables

Identify the slope for each table below.

7. _____

X	Y
-1	-3
2	3
4	7
8	15
10	19

8. _____

X	Y
-2	7
-1	4
0	1
1	-2
2	-5

9. _____

X	Y
-2	3
-1	3
0	3
1	3
2	3

10. _____

X	Y
-3	11
1	9
3	8
7	6
9	5

III. Slope from Two Points

Identify the slope from the points below.

11. (1, -3) and (4, 2)

12. (7, 2) and (-1, 2)

13. (0, 3) and (6, 6)

IV. Slope from Equations

Identify the slope for each equation

14. $y = 4x - 6$

Slope: _____

15. $y = -4$

Slope: _____

16. $y = 6 + \frac{1}{2}x$

Slope: _____