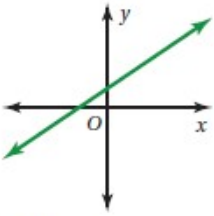
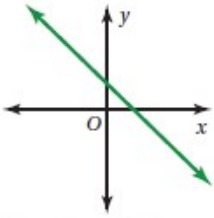
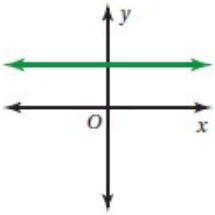
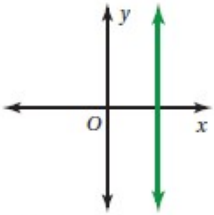
Section 4.2: Slope of a Line Name: _____

In Class Notes

The _____ of a line describes how steep the line is.

Slope =

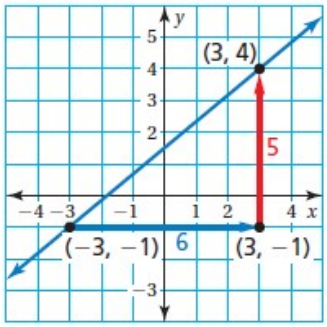
Slope

Positive Slope	*Negative Slope*	*Slope of 0*	*Undefined Slope*
			
The line rises from left to right.	The line falls from left to right.	The line is horizontal.	The line is vertical.

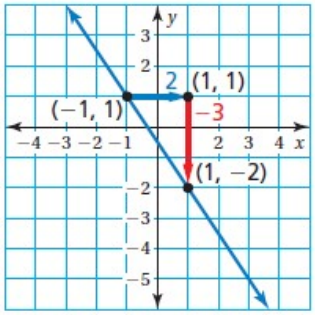
Describe the slope of each line, then find each slope (using the graph and the formula). Notes:

Ex:)

a.

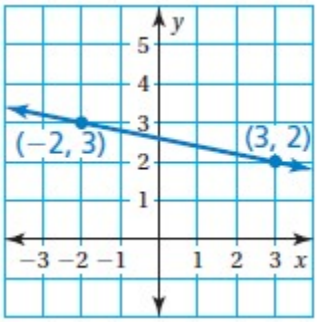


b.

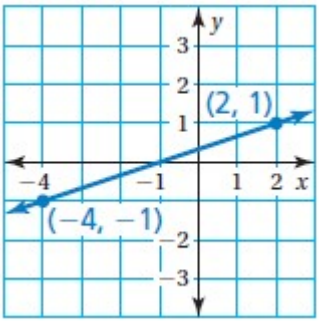


Describe the slope of each line, then find each slope (using the graph and the formula). Notes:

OYO:) a.



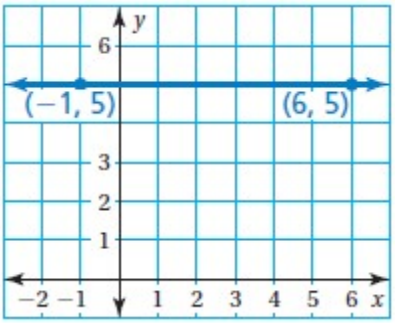
b.



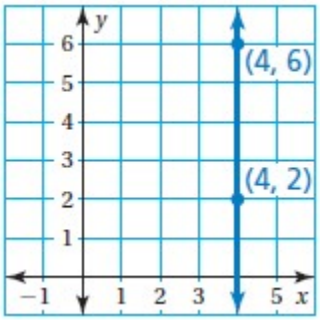
Finding the slope of horizontal & vertical lines

Find the slope of each line using the graph and the formula. Notes:

Ex:) a.



b.

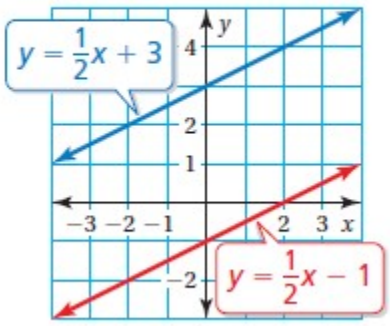


Key Idea

Parallel Lines and Slope

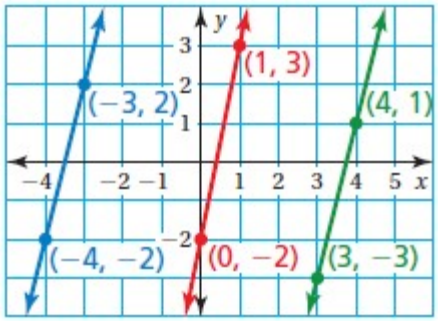
Lines in the same plane that do not intersect are parallel lines. Nonvertical parallel lines have the same slope.

All vertical lines are parallel.



Which lines are parallel? How do you know? Notes:

Ex:)



OYO:) What if? The blue line passes through (-4, -3) and (-3, 2). Notes:

Are any of the lines parallel? Explain

Ex:) The table shows the distance y (in miles) of a space probe from a comet x minutes after it begins its approach. The points in the table lie on a line. Notes:

Find and interpret the slope of the line.

x	1	4	7	10
y	8	6	4	2

OYO:) You in-line skate from an elevation of 720 feet to an elevation of 750 feet in 30 minutes. Your friend in-line skates from an elevation of 600 feet to an elevation of 690 feet in one hour. Compare your rates of change in elevation.

Notes: