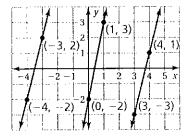
Name:	Date :

## Chapter 2, Section 2B Notes Slopes of Parallel and Perpendicular Lines

<u>Today's Learning Goal:</u> At the end of today's lesson, you should be able to find the slope of parallel and perpendicular lines.

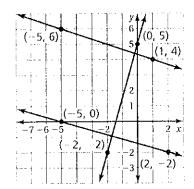
Two lines are parallel if \_\_\_\_\_\_\_\_.

Example: Determine which lines are parallel. Explain how you know.



Two lines are perpendicular if \_\_\_\_\_

Example: Determine which lines are perpendicular. Explain how you know.



## More Examples:

Are the given lines parallel? Explain your reasoning.

a) 
$$y = -5$$
,  $y = 3$ 

b) 
$$y = 0, x = 0$$

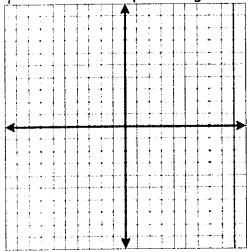
Are the given lines perpendicular? Explain your reasoning.

a) 
$$x = -2$$
,  $y = 8$ 

b) 
$$x = -8$$
,  $x = 7$ 

The vertices of a quadrilateral are A(-5,3) B(2,2) C(4,-3) D(-2,-2). Determine whether the

quadrilateral is a parallelogram.



Progress Monitoring: How do you feel about your level of understanding of finding slope of parallel and perpendicular lines? (Rate yourself from 0 (don't understand at all) to 10 (doing

awesome))

