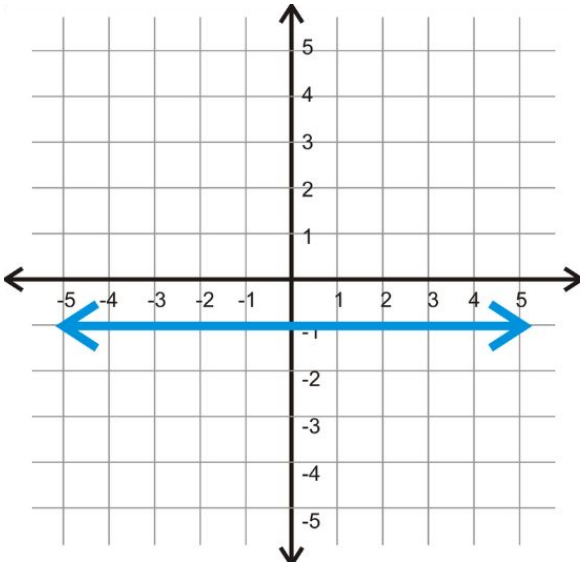
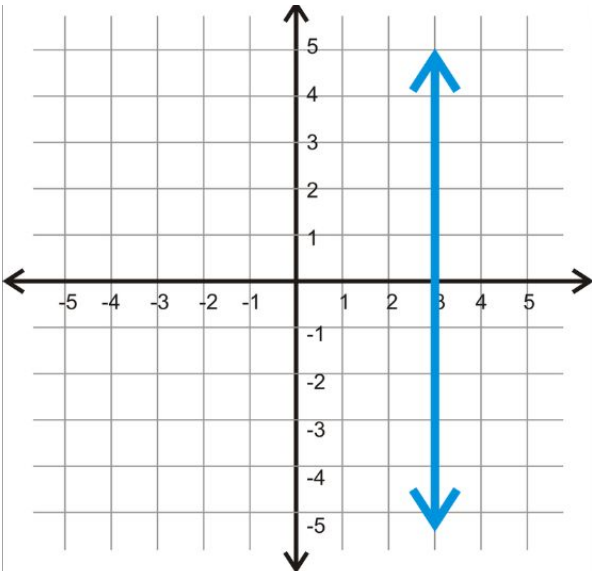
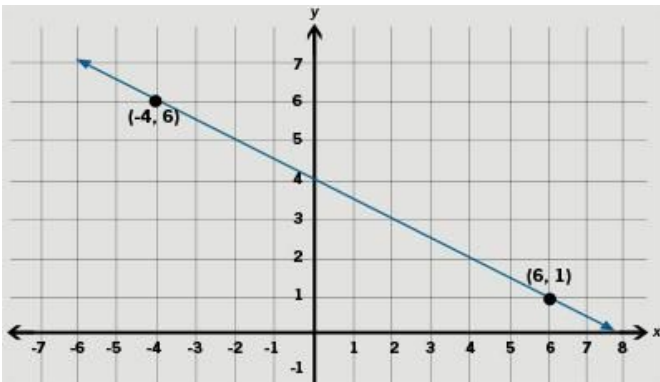


ASSIGNMENT #5

Overview of Parallel and Perpendicular Lines

GUIDED NOTES

DIRECTIONS: Use each of the examples below to define each of the different **ROTATIONS**. Write any notes, comments, remarks below each of the graphs. Use a different color to draw the new line.

Example 1	Example 2
<p>Draw a line that is PERPENDICULAR to the line below.</p>  <p>NOTES / COMMENTS / REMARKS How many PERPENDICULAR lines can we create?</p>	<p>Draw a line that is PARALLEL to the line below.</p>  <p>NOTES / COMMENTS / REMARKS How many PARALLEL lines can we create?</p>
Example 3	Example 4
<p>Remember that PERPENDICULAR LINES have slopes that are _____.</p> <p>Now given the line below, draw a line that is PERPENDICULAR.</p> <p>The slope of the given line is _____.</p>	<p>Remember that PARALLEL LINES have slopes that are _____.</p> <p>Now given the line below, draw a line that is PARALLEL.</p> <p>The slope of the given line is _____.</p> 

THE LINK: *Parallel and Perpendicular lines*

VERBAL

DIRECTIONS: Fill in the blanks.

PARALLEL lines have _____ slopes

PERPENDICULAR lines have _____ slopes

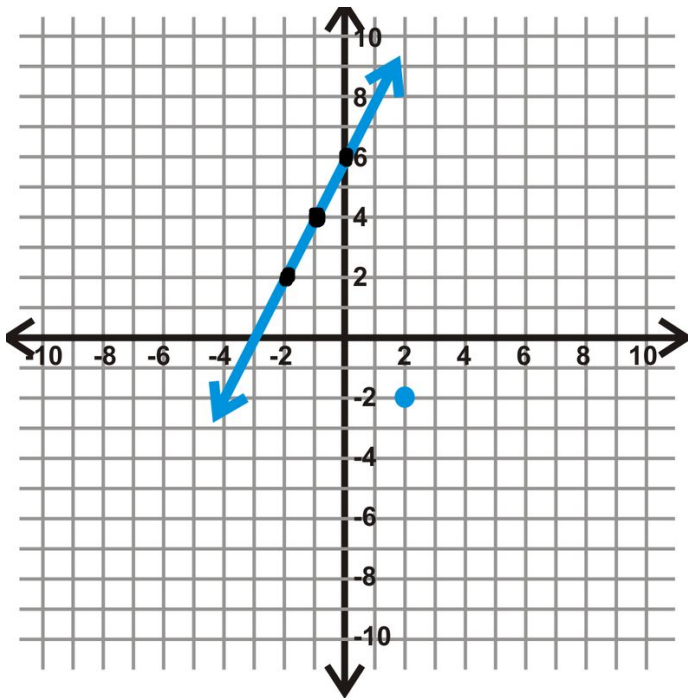
NUMERIC

DIRECTIONS: Circle the slope in the equations below, then write the **PARALLEL** and **PERPENDICULAR** slopes for each.

Equation	Slope Parallel	Slope Perpendicular
$y = \frac{2}{3}x + 5$		
$y = -4x + 1$		
$y = x - 3$		
$y = -\frac{1}{2}x$		

GRAPH

DIRECTIONS: Graph a **PARALLEL LINE** and a **PERPENDICULAR LINE** through the point (2, -2).



COMMUNICATION

DIRECTIONS: Answer the following questions

1. What is the **slope of the parallel line** you drew?
2. What is the **slope of the perpendicular line** you drew?
3. How do these two slopes compare to each other?

SUMMARY: Write a note to yourself to remember the important facts about **PARALLEL** and **PERPENDICULAR** lines.