

## **“Worksheet: Student Report”**

You will write a report presenting your findings about slopes and lines. The report should be written using Microsoft Word and the graphs should be imported from your Excel spreadsheets. (See “Step Sheet: Importing Graphs from Excel into Word Documents.”) You should include the following information in the report.

1. How do you find the x and y intercepts of a line?

Give a written explanation on how to find the intercepts and how to use the intercepts to graph a line. Then show one example of the process to find intercepts. Graph the line using your Excel spreadsheet and paste the graph into your Word document.

2. How do you find the slope of a line?

Give a written explanation on how to find the slope of a line. Find the slope of the line from question 1. What is the graphical meaning of the slope of a line?

3. What is the relationship of slopes when lines are parallel?

Give an example of parallel lines, and from the equations show that they are parallel. Graph the lines using your Excel spreadsheet and paste the graph into your Word document.

4. What is the relationship of slopes when lines are perpendicular?

Give an example of perpendicular lines, and from the equations show that they are perpendicular. Graph the lines using your Excel spreadsheet and paste the graph into your Word document.