Math 100 Lab
Notebook Requirements for Chapter 3

Each item listed must have a **definition or rule written in your own words with an example**. Provide step-by-step directions when applicable. You will be able to use this notebook for every test. Everything on the tests will be covered in the notebook; however, not everything in the notebook will be on the test.

Your notebook must be kept in one notebook with no other notes included. I will review your notebook upon request and check it the week before midterm and the week before the final. This counts as 50% of your lab grade.

1. Describe the Cartesian coordinate system. Include an example labeling the quadrants, x-axis, y-axis and origin.
2. Describe how to plot an ordered pair.
3. How do you determine if an ordered pair is a solution of an equation?
4. What is a function?
5. What is the domain of a function?
6. What is the range of a function?
7. What does $f(x)$ mean?
8. Define x-intercept.
9. Define y-intercept.
10. Define the slope of a line.
11. What is the slope-intercept form of a linear equation?
12. How can you graph a line using the y-intercept and slope?
13. How do you know that two lines are perpendicular?
14. How do you know that two lines are parallel?
15. What is the slope of a horizontal line?
16. What is the slope of a vertical line?
17. Given 2 points, how can you find the equation of a line?