Math 141
Exam #1 Review
Exam #1 will cover sections 1.1 – 1.4, 2.1 – 2.4. Be certain to bring your graphing calculator – you are not allowed to share a calculator with somebody else. You will NOT have to set up optimization problems as found in 2.4, but given the equation you WILL have to find the minimum or maximum point.

Formulas/equations/concepts you need to know!

- slope formula (also know how to find the slope of a line parallel or a perpendicular to a given line)
- slope-intercept form of a linear equation
- point-slope form of a linear equation
- mid-point formula
- distance formula
- quadratic formula
- equation of a circle
- Pythagorean Theorem.
- Give solutions to inequalities graphically, with interval notation and with set-builder notation.
- Solve quadratic equations algebraically and graphically.
- Solve any equation graphically
- Express absolute value as distance between two points

Calculator Skills:
I will not provide calculator help on the exam, so be certain that you know how to use your calculator (one exception - if your calculator gives you a "DIMENSION" error, I will help you correct the problem). You need to know how to do the following on your calculator:

- perform basic computations (add/subtract/etc.)
- graph equations
- set the graph window (manually, zoom standard, zoom in/zoom out)
- know how and when to use your calculator to find the roots of a function, the minimum and maximum value of a function, and the intersection points of the graph of two functions.

Recommended Practice Problems:
Assigned homework problems (odds and evens)
Redo Computer Homewor (they're open for review assessments)
Group Works #1 - #3
Chapter 1 Review (pp. 70-71): 11, 15, 23, 28, 41, 44, 47, 59, 61, 63
Chapter 2 Review (pp. 132 – 133): 1-21 (try assorted problems)