MATH 140 Exam II (2.4 - 3.6) Review

1. Know the definition of a complex number.

2. Know how to add, substract, multiply and divide complex numbers.

3. Know how to solve equations involving radicals and other fractional exponents.

4. Know how to solve and graph the solution to a linear inequality in one variable.

5. Know how to find the midpoint and distance between points in a rectangular coordinate system.

6. Know how to graph an equation in the coordinate plane, including the equation of a circle and of a parabola (quadratic equation).

7. Know how to graph the equation of a line, and the forms a line: general form, point-slope form, slope-intercept form.

8. Know how to find parallel and perpendicular lines to a given line.

9. Know the definition of a function and how to find the domain and range of a function.

10. Know the linear transformation and how they effect the graph of a function.

11. Know how to add, substract, multiply and divide functions and determine the resulting domains.

Example exercises: Quiz & Homework questions; Ch. 2 Review, #27-93 odd; Ch. 2 Test, #13-17; Ch. 3 Review, #1-79