MATH 101
Test 3
Sections 1.6, 2.1-2.5, 3.1

Sections 2.1-2.3

Functions and Relations   *(11)*

      Domain/Range

      Vertical Line Test

      Evaluating

Linear Functions & Graphs

Square Root Functions & Graphs

Absolute Value Functions & Graphs

Rational Functions & Graphs

Piece-wise Functions & Graphs

Transformations of Graphs

Increasing/Decreasing/Constant

Section 2.4

Combining Functions   *(4)*

      Addition/Subtraction

      Multiplication/Division

      Composition

Section 2.5

Inverse Functions   *(2)*

      Horizontal Line Test

      One-to-One Functions

      Switch-and-Solve Strategy

Determine if two functions are inverses

Given one function, write its inverse

Section 3.1

Quadratic Functions   *(2)*

      Opens Up/Down

      Vertex

      x-intercepts

      y-intercepts

      Graph

      Domain / Range

Standard (Polynomial) Form

Complete the Square Form

Section 1.6

Miscellaneous Equations   *(6)*

      Factoring (by grouping)

      Radical Equations

      Eqns. Quadratic in Nature

      Eqns. w/ Rational Exponents

      Absolute Value Equations

      Substitution

NOTE: There will be a total of 25 problems on the test. Each problem will be worth 4 points. The numbers in parentheses indicate the number of each type on the test.

REVIEW PROBLEMS

Section 2.1 Exercises

    Pp. 191-192: #19-32, 45-50, 53-54, 57-72

Section 2.2 Exercises

    Pp. 204-205: #53-60

Section 2.3 Exercises

    Pg. 221: #45-60

Section 2.4 Exercises

    Pp. 230-231: #7-18, 41-54

Section 2.5 Exercises

    Pg. 246: #69-90

Section 3.1 Exercises

    Pg. 275: #43-54

Section 1.6 Exercises

    Pp. 156-157: #1-80