MATH 101
Test 2
Sections 1.5, 1.7, 2.1-2.5, 3.1

Section 1.5

Solving Quadratic Equations: *(4)*

- Factoring
- Square Root Property
- Completing the Square
- Quadratic Formula

Section 1.7

Simple Inequalities *(1)*

- Solve
- Graph
- Interval Notation

Compound Inequalities *(2)*

- And/Or
- Overlapping
- All or Nothing

Absolute Value Inequalities *(2)*

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.

Sections 2.1-2.3

Functions and Relations *(9)*

- Domain/Range
- Vertical Line Test
- Evaluating

Linear Functions & Graphs

Square Root Functions & Graphs

Absolute Value Functions & Graphs

Piece-wise Functions & Graphs

Transformations of Graphs

Increasing / Decreasing / Constant

Section 2.4

Combining Functions *(3)*

- Addition/Subtraction
- Multiplication/Division
- Composition

Section 2.5

Inverse Functions *(2)*

- Horizontal Line Test
- One-to-One Functions
- Switch-and-Solve Method

Determine if two functions are inverses

Given one function, write its inverse

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Section 3.1

Quadratic Functions *(2)*

- Opens Up/Down
- Vertex
- Axis of Symmetry
- x-intercepts
- y-intercepts
- Graph
- Domain / Range

Standard Form

Complete the Square Form

REVIEW PROBLEMS

Section 1.5 – Pp. 141-142: #5-28, 35-60

Section 1.7 – Pp. 169-170: #15-26, 45-76

Section 2.1 – Pp. 191-192: #19-32, 45-50, 53-54, 57-72

Section 2.2 – Pp. 204-205: #53-60

Section 2.3 – Pg. 221: #45-60

Section 2.4 – Pp. 230-231: #7-18, 41-54

Section 2.5 – Pg. 246: #69-90

Section 3.1 – Pg. 275: #43-54