

MATH 100
Test 4
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.

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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