

MATH 101  
Test 2  
Sections 1.1-1.4, 1.5, 1.7

Section 1.1

Rational Equations (2)

Absolute Value Equations (1)

Section 1.2

Application Problems: (3)

Geometric Formula

Motion Problems

Mixture Problems

Work Problems

Solve Formula for Variable (1)

Section 1.3

Midpoint of a Segment (1)

Length of a Segment (1)

Circles: (3)

Find center & radius

Graph

Write standard equation

Graphing Lines: (2)

Use slope & y-intercept

Use x-and y-intercepts

Horizontal/Vertical Lines

Section 1.4

Find slope (1)

Write equation of a line: (2)

Given slope & point

Given two points

Parallel/Perp to given line

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 (1)

And/Or

Overlapping

All or Nothing

Absolute Value Inequalities (2)

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REVIEW PROBLEMS

Section 1.1 Exercises

Pp. 86-88: #21-26, 37-48, 63-80, 89-104

Section 1.2 Exercises

Pp. 97-101: #5-18, 41, 48, 54, 71, 81, 83

Supplemental Worksheet of Additional Word Problems ([www.latech.edu/~charlesp](http://www.latech.edu/~charlesp))

Section 1.3 Exercises

Pp. 113-114: #19-24, 33-44, 49-62, 67-86

Section 1.4 Exercises

Pp. 127-128: #9-26, 35-42, 67-84

Section 1.5 Exercises

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

Section 1.7 Exercises

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

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.