

MATH 101  
Test 1  
Sections P.3-P.4, P.6-P.7, 1.1-1.4

Sections P.3 & P.4

Simplifying: (2)

Fractional Exponents

Rules for Exponents

Radicals: (4)

Simplify

Addition/Subtraction

Multiplication/Division

Rationalize Denominator

Conjugate

Section P.6

Rational Expressions: (4)

Domain

Addition/Subtraction

Multiplication/Division

Complex Fractions (2)

Section P.7

Complex Numbers: (3)

Addition/Subtraction

Multiplication/Division

Conjugate

NOTE:

There will be a total of 33 problems on the test. Each problem will be worth 3 points.

The numbers in parentheses indicate the number of each type on the test.

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 line: (3)

Given slope & point

Given two points

Parallel/Perp to given line

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Sections P.3-P.4, P.6-P.7, 1.1-1.4

REVIEW PROBLEMS

Section P.3 Exercises

Pg. 32: #5-18, 27-38, 61-68, 81-94

Section P.4 Exercises

Pg. 42: #49-56, 67-76

Section P.6 Exercises

Pp. 62-64: #7-14, 27-38, 51-66, 71-85

Section P.7 Exercises

Pp. 71-72: #13-34, 55-74

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