

**MATH 099**  
*Review for Test #1*  
(Sections 1.1-1.9, 2.1-2.4)

Section 1.1:

List the numbers described and graph on a number line  
Determine whether a statement about a set of numbers is true or false  
Absolute Value

Section 1.2:

Rooster notation  
Set-builder notation  
Know how to find the  
    Union of sets -  $\cup$   
    Intersection of sets -  $\cap$

Section 1.3:

Reduce a fraction to lowest terms  
Add, subtract, multiply, and divide fractions  
Convert percent-decimal-fraction

Sections 1.4 & 1.5:

Know how to add, subtract, multiply, and divide signed (real) numbers

Section 1.6:

Know how to evaluate exponential expressions  
Know how to use the order of operations to evaluate an expression

Section 1.7:

Be able to translate a verbal expression to an algebraic expression or equation  
Be able to evaluate an algebraic expression given values for the variables

Section 1.8:

Use the properties of Real Numbers to simplify expressions

Section 1.9:

Be able to simplify an algebraic expression by using  
    Distributive Property  
    Combining Like Terms

Sections 2.1, 2.2, & 2.3:

Be able to solve an equation by  
    Clearing of fractions or decimals  
    Using Distributive Property to remove parentheses

Section 2.4:

Be able to solve formulas (literal equations) for a specific variable  
Solve word problems involving formulas

## *Review Problems*

### Section 1.1:

Pg. 8: # 15-50

### Section 1.2:

Pp. 14-15: # 19-30, 53-66, 79-84

### Section 1.3:

Pp. 24-25: # 19-56, 61-100

### Section 1.4:

Pp. 30-31: # 7-28, 37-84

### Section 1.5:

Pp. 35-36: # 7-58, 63-86

### Section 1.6:

Pg. 42: # 7-18, 35-118

### Section 1.7:

Pg. 49: # 29-62, 79-86

### Section 1.8:

Pp. 57-58: # 25-32, 35-54

### Section 1.9:

Pp. 64-65: # 7-106

### Sections 2.1, 2.2, & 2.3:

Pg. 86: # 5-90

Pp. 92-93: # 7-82

### Section 2.4:

Pp. 100-101: # 7-54, 65-68, 71-78