

# TEST #1 MATERIAL

## MATH 171

### SECTION 1.4 EXPONENTS

- Know how to simplify expressions using the rules of exponents

### SECTION 1.5 SCIENTIFIC & ENGINEERING NOTATION

- Know how to express numbers in both scientific & engineering notation
- Know your engineering notation symbols from  $-12$  to  $12$

### SECTION 1.6 ROOTS & RADICALS

- Know how to simplify radical expressions

### SECTIONS 1.7, 1.8 & 1.9 OPERATIONS ON POLYNOMIALS

- Add, subtract, multiply, divide & long divide polynomials

## SECTION 1.12 Word Problems

- Know how to solve word problems like we did in class & in Homework #3

## Sections 3.1 & 3.2 FUNCTIONS

- Know how to evaluate functions
- Know how to find domain & range of a function
- Know how to state a function in a word problem

## CHAPTER 5

- Finding a slope
- Finding the equation of a line
- Property of slopes of parallel or perpendicular lines
- Solve a system of 2 equations & 2 unknowns
- Solve a system of 3 equations & 3 unknowns