

## SUMMARY DISCUSSION CHECKLIST

### Functions Studied in Math 101

*Experiencing Introductory and Intermediate Algebra Through Functions and Graphs,*  
by Thomasson and Pesut 3<sup>rd</sup> edition, Prentice Hall

### QUADRATIC FUNCTIONS/EQUATIONS

#### Students Should Be Able To:

- Identify Quadratic Equations
- Solve Quadratic Equations:
  1. Square Root Property
  2. Factoring
  3. Completing The Square
  4. Quadratic Formula
- Graph Quadratic Equations:
  1. Describe The Graph
  2. Graphing Techniques
  3. Find  $y$  Intercept
  4. Find The Vertex
  5. Find The Axis Of Symmetry
  6. Vertical Translations
  7. Horizontal Translations
  8. Find  $x$  Intercept
- Identify Domain And Range Of Quadratic Equations

- Identify Quadratic Inequalities
- Solve Quadratic Inequalities

### **RATIONAL FUNCTIONS/EQUATIONS**

#### **Students Should Be Able To:**

- Identify Rational Equations
- Identify Domain And Range Of Rational Equations
- Solve Rational Equations
- Graph Rational Equations
  1. Describe The Graph
  2. Graphing Techniques

### **RADICAL FUNCTIONS/EQUATIONS**

#### **Students Should Be Able To:**

- Identify Radical Equations
- Solve Radical Equations
- Graph Radical Equations
- Identify Domain And Range Of Radical Equations

### **EXPONENTIAL FUNCTIONS/EQUATIONS**

#### **Students Should Be Able To:**

- Identify Exponential Equations
- Graph Exponential Equations
- Identify Domain And Range Of Exponential Equations