MEHS Algebra 2A

This is a one semester course which earns ½ math credit. This class is the first half of our Algebra 2 sequence. Successful completion of this course allows students to take Algebra 2B. Algebra 2B is considered the minimum for college readiness.

Units:

1. INTRODUCTION TO FUNCTIONS

- 1.1. Exploring Transformations
- 1.2. Introduction to Parent Functions (Quiz A)
- 1.3. Transforming Linear Functions
- 1.4. Curve Fitting with Linear Models (Quiz B), TEST

2. QUADRATIC FUNCTIONS AND COMPLEX NUMBERS

- 2.1. Using Transformations to Graph Quadratic Functions
- 2.2. Properties of Quadratic Functions in Standard Form
- 2.3. Solving Quadratic Equations by Graphing and Factoring
- 2.4. Completing the Square
- 2.5. Complex Numbers and Roots
- 2.6. The Quadratic Formula (Quiz A)
- 2.7. Solving Quadratic Inequalities
- 2.8. Curve Fitting to Quadratic Models
- 2.9. Operations with Complex Numbers (Quiz B), TEST

3. OPERATIONS WITH POLYNOMIALS

- 3.1. Polynomials
- 3.2. Multiplying Polynomials
- 3.3. Dividing Polynomials
- 3.4. Factoring Polynomials (Quiz A)
- 3.5. Finding Real Roots of Polynomial Functions
- 3.6. Fundamental Theorem of Algebra
- 3.7. Investigating Graphs of Polynomial Functions
- 3.8. Transforming Polynomial Functions
- 3.9. Curve Fitting with Polynomial Functions (Quiz B), TEST

4. EXPONENTIAL FUNCTIONS AND LOGARITHMS

- 4.1. Exponential Functions, Growth, and Decay
- 4.2. Inverses of Relations and Functions
- 4.3. Logarithmic Functions
- 4.4. Properties of Logarithms (Quiz A)
- 4.5. Exponential and Logarithmic Equations and Inequalities
- 4.6. The Natural Base, e
- 4.7. Transforming Exponential and Logarithmic Functions
- 4.8. Curve Fitting with Exponential and Logarithmic Models (Quiz B), TEST

5. RATIONAL FUNCTIONS

- 5.1. Variation Functions
- 5.2. Multiplying and Dividing Rational Expressions
- 5.3. Adding and Subtracting Rational Expressions
- 5.4. Rational Functions

MEHS Algebra 2A

- 5.5. Solving Rational Equations and Inequalities (Quiz A)
- 5.6. Radical Functions
- 5.7. Solving Radical Equations and Inequalities (Quiz B), Test