

College Algebra Course Content

1.1 Introduction to functions

1.2 Graphs of Functions

1.3 Transformations of functions

1.4 Composite functions,

1.5 Inverse functions

2.1 Quadratic functions.

2.2 Graphs of polynomials

2.3 Synthetic division to factor polynomials,

2.4 Real and complex zeros of polynomials,

2.5 Polynomial inequalities

3.1 Introduction to rational functions

3.2 Graphing rational functions,

3.3 Rational inequalities and applications

4.1 Exponential and logarithmic functions

4.2 Properties of Logarithms,

4.3 Exponential functions and equations

4.4 Logarithmic functions and equations

4.5 Applications of exponential and logarithmic functions

6.1 Systems of linear and non-linear equations

6.2 Systems of linear equations and applications

6.3 Systems of linear equations Augmented matrices,

6.4 Matrix arithmetic

6.5 Systems of linear equations – matrix inverses