

Course: Intermediate Algebra Refresher

Course Description:

This course will give an introduction to solving systems of linear equations, rational expressions, roots and radicals, quadratic equations and exponential and logarithmic functions .

Topics Covered:

- Review of graphing lines
- Solving systems of linear equations
- Solving systems by graphing
- Solving systems by substitution
- Solving systems by elimination (addition)
- Using systems of equations to solve applied problems
- Review of factoring
- Rational expressions
- Simplifying rational expressions
- Multiplying and dividing rational expressions
- Adding and subtracting rational expressions
- Simplifying complex rational expressions
- Solving equations containing rational expressions
- Roots and radicals
- Evaluating radical expressions
- Simplifying radical expressions
- Multiplying and dividing radical expressions
- Adding and subtracting radical expressions
- Solving equations containing radical expressions
- Rational exponents
- Quadratic equations and functions
- Solve quadratic equations using the square root property
- Solve quadratic equations by completing the square
- Solve quadratic equations using the quadratic formula
- Graph quadratic functions
- Introduction to exponential and logarithmic functions
- Graph and evaluate exponential functions
- Graph and evaluate logarithmic functions

Duration: 15 days