

Intermediate Algebra

Semester 1 Final Review Part 1

- Functions
 - Definition of a function
 - Finding domain and range
- Linear Functions
 - Forms for the equation of a line
 - System of linear equations
 - Linear inequalities (unions and intersections)
- Transformations
 - Vertical and horizontal shifts
 - Vertical and horizontal reflections
 - Vertical stretches and compressions

Semester 1 Final Review Part 2

- Polynomials/Exponents
 - Properties of exponents
 - Classifying polynomials
 - Factoring (sum of squares and difference of squares and cubes)
 - Rational root theorem
 - Dividing polynomials
 - Graphing polynomials
- Rational functions
 - Solving equations with rational expressions
 - Finding vertical asymptotes
 - Finding horizontal asymptotes
- Quadratics
 - Completing the square
 - Quadratic Formula
 - Vertex form of a parabola