

Things to know for the final:

Basic Facts about Numbers:

- Natural, Whole, Integer, Rational, Real and Complex Numbers
- Set Builder Notation
- Interval Notation
- Order of Operations
- Exponent Rules

Functions

- Domains of Functions
- Function Notation
- Composing Functions
- Finding Inverses of functions
- Graphing Functions
- Algebra with Functions (Ex: $(f+g)(x)$)

Inequalities

- Solving inequalities
- Graphing inequalities on a number line
- Inequalities with two variables
- Or vs. And (Unions and Intersections)
- Absolute Values

Polynomials

- How to graph
 - What degree?
 - End Behavior of a graph

Rational Equations

- Multiplying
- Adding and Subtracting

- Long Division/Synthetic Division

Radical Equations

- Simplifying
- Fractional Exponents
- Multiplying, Dividing
- Addition, Subtraction
- Complex Numbers
- Fractals

Quadratic Functions

- Complete the Square
- Transformations
- Physics

Exponential and Logarithmic Functions

- Exponential Growth/Decay
- What are Logs?
- Log form and exponential form
- Log rules
- Logarithmic equations
- Natural Log and e

Trigonometry

- Right Triangle Trig
- Unit Circle
- Radians
- Graphs of Trig Functions
- Solve Trigonometric Problems

Conic Sections

- Circle
- Ellipse
- Parabola
- Hyperbola
- Definitions, Vertices, Foci