Algebra | Mathematics Common Core State Standards

Quantities
1. Reason quantitatively and use units to solve problems.

The Real Number System
2. Extend the properties of exponents to rational exponents and use properties of rational and irrational numbers.

Creating Equations
3. Create equations that describe numbers or relationships.

Seeing Structure in Expressions
4. Interpret the structure of expressions, perform arithmetic operations on polynomials, and write expressions in equivalent forms to solve problems.

Reasoning with Equations & Inequalities
5. Solve equations and inequalities in one variable.

6. Represent and solve systems of equations and inequalities.

Interpreting Functions
7. Understand the concept of a function and use function notation.

8. Interpret functions that arise in applications in terms of a context.

9. Analyze functions using different representations.

Building Functions
10. Build a function that models a relationship between two quantities and build new functions from existing functions.

Linear, Quadratic, & Exponential Models
11. Construct and compare linear, quadratic, and exponential models, solve problems, and interpret expressions for functions in terms of the situation they model.

Interpreting Categorical & Quantitative Data
12. Summarize, represent, and interpret data on a single count or measurement variable.

13. Summarize, represent, and interpret data on two categorical and quantitative variables, and interpret linear models.

Building Functions
14. Build a function that models a relationship between two quantities and build new functions from existing functions.