

Algebra
Session 3, 2012
Instructor: Liza Scheer

Course objective: To prepare for higher-level math courses

California's Common Core Content Standards:

- Extend the properties of exponents to rational exponents.
- Use properties of rational and irrational numbers.
- Understand the connections between proportional relationships, lines and linear equations.
- Analyze and solve linear equations and pairs of simultaneous linear equations.
- Solve equations in one variable.

Each week students will be given work to be completed independently, which will be discussed the following week. **Skills will build upon each other; therefore, completion of independent work is crucial to success in the class.** Expected time to complete independent work is approximately 2 hours/week.

Course Outline:

01/23/12 Order of Operations, Commutative, Associative and Distributive Properties, +, -, x, and dividing integers
01/30/12 Solving Equations using addition and subtraction
02/06/12 Solving Equations using multiplication and division
02/13/12 Solving Proportion and Percent Change
02/20/12 (No class due to President's Day)
02/27/12 Graphing Linear Relations
03/05/12 Slope-Intercept Form and Point-Slope Form
03/12/12 Families of Linear Graphs