Coreq Support for Section 2.1

# Topic 1: Adding, Subtracting, Multiplying, and Dividing Fractions

# Topic 2: Finding the Average of Two Numbers

The average of a set of values is the sum of all the values divided by the total number of values.

# Topic 3: Evaluating Expressions that Contain Exponents

# (Video: Exponents 0:00 – 7:10)

# Topic 4: Simplifying Square Roots

# (Video: Simplifying Square Roots)

A square root is simplified when the radicand contains no perfect square factors other than . To simplify a square root, we use the product rule for square roots.

**Product Rule for Square Roots:**

If  and  are real numbers, then

.

# Topic 5: Solving Linear Equations Involving Fractions

Recall from section 1.1 that to solve a linear equation that contains fractions it is often convenient to clear the equation of fractions by multiplying both sides of the equation by the LCD.

# Topic 6: Solving Quadratic Equations

Recall that in section 1.4, we learned three methods of solving a quadratic equation: factoring, using the square root property, and the quadratic formula.

# Topic 7: Solving Radical Equations of the Form