Coreq Support for Section 1.6b

# Topic 1: Negative Exponents

# (Video: Negative Exponents)

If $a$ is a real number other than $0$ and $n$ is an integer, then

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# Topic 2: Evaluating Expressions of the Form

# (Video: Rational Exponents 0:00 – 7:15)

**Definition of** **:** If $n$ is an integer greater than $1$ and  is a real number, then ****.

# Topic 3: Solving Quadratic Equations

Recall from section 1.4 that some quadratic equations can be solved by factoring and then using the zero-product property and that quadratic equations of the form  by using the square root property.

# Topic 4: Solving Rational Equations

Recall from section 1.1 that a rational equation is an equation consisting of one or more rational expressions with any other expressions of the equation being polynomials. Here are some examples of rational equations.







To solve a rational equation multiply both sides of the equation by the LCD. Remember to check for extraneous solutions.

# Topic 5: Solving Radical Equations of the Form

To solve a radical equation of the form  raise each side of the equation to the appropriate power to eliminate the radical. When the index of the radical is even, be sure to check for extraneous solutions.