Coreq Support for Section 5.5 (includes 5.1b)

# Topic 1: Converting Between Decimal and Percent Notation

To convert from a decimal to a percent, multiply by $100$. Multiplying by $100$ shifts the decimal point two places to the right.

To convert from a percent to a decimal, divide by $100$. Dividing by $100$ shifts the decimal point two places to the left.

# Topic 2: Approximating Exponential Expressions with the Calculator

# Topic 3: Solving Exponential Equations of the Form

To solve an exponential equation that can be written in the form $ $where $c$ is a constant not equal to any power of the base $b$:

1. Rewrite the equation in logarithmic form using the Definition of a Logarithmic Function.
2. Solve for the given variable and use the Change of Base Formula (base 10 or base *e*) to evaluate.

Alternatively,

1. Use the Logarithm Property of Equality to “take the log of both sides” (base 10 or base *e*).
2. Use the Power Rule of Logarithms to “bring down” any exponents. (If the base is *e*, remember that  for all *x*.
3. Solve for the given variable.