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 $b^u = c$

To solve an exponential equation that can be written in the form $b^u = c$ 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 $\ln e^x = x$ for all x.
3. Solve for the given variable.