ALGEBRA II OBJECTIVES

FUNCTIONS

For this unit, you are expected to know the following. You are responsible for answering questions on these topics given different representations (equations, graphs, tables, mapping diagrams, verbal descriptions).

* Determine if a function is a relation or not.
* Determine if a function is discrete or continuous.
* Determine if a function is one-to-one or onto.
* Find domain and range of a function.
* Evaluate functions.
* Perform operations on functions (addition, subtraction, multiplication, division, composition)
* Find values of x that yield a given value of y.
* Find zeroes (real and non-real) of a function.
* Interpret graphs (domain, range, intervals of increase, decrease, constancy, intercepts, relative and absolute extrema, intervals on which a function is positive or negative).
* Graph a function using transformations.
* Find domain and range of a transformation of a function.
* Sketch a graph given various conditions.
* Evaluate piecewise functions.
* Graph piecewise functions.
* Write an equation of a piecewise function.