

Outline for Precalculus Exam #1

Determining if a relation is a function both finite and infinite.

Operations and compositions of functions with x and with values.

Inverses of functions including one-to-one functions and compositions ... with x and with values.

Graphing various types of functions.

Determining domains. This will be included only on an elementary level.

Determining where a graph increases and decreases.

Finding y values for given x 's from a piecewise function.

Finding the function rule for a piecewise function.

Graphing piecewise functions.

Graphing step (greatest integer) functions.

Please note: In general it would be good to be familiar with the following types of functions for the exam and any future exams: 1st, 2nd, and 3rd degree (linear, quadratic, cubic), , constant (special linear function where the graph is horizontal), exponential, radical, absolute value plus piecewise and step.