Coreq Support for Section 3.6

# Topic 1: Sketching the Graphs of the Basic Functions

# Topic 2: Sketching the Graphs of Basic Functions with Restricted Domains

# Topic 3: Using Vertical or Horizontal Shifts to Graph Functions

**(Video: Graphing Piecewise-Defined Functions; Shifting/Reflecting Graphs of Functions 14:32 – 31:22)**

Recall from section 3.4 that for a positive number :

The graph of  is obtained by shifting the graph of  upward *c* units.

The graph of  is obtained by shifting the graph of  downward *c* units.

The graph of  is obtained by shifting the graph of  to the left *c* units.

The graph of  is obtained by shifting the graph of  to the right *c* units.

# Topic 4: Graphing Piecewise-Defined Functions

**(Video: Graphing Piecewise-Defined Functions; Shifting/Reflecting Graphs of Functions 0:00 – 9:48)**

Recall from section 3.3 that a **piecewise-defined function** is a function defined by different rules on different parts of its domain.

# Topic 5: Rearranging an Equation to Solve for

# Topic 6: Finding Function Values from a Graph