## **Coreq Support for Section 3.6**



**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 *c*:

- The graph of g(x) = f(x) + c is the graph of y = f(x) shifted c units upward.
- The graph of g(x) = f(x) c is the graph of y = f(x) shifted c units downward.
- The graph of g(x) = f(x c) is the graph of y = f(x) shifted c units to the right.
- The graph of g(x) = f(x + c) is the graph of y = f(x) shifted c units to the left.

