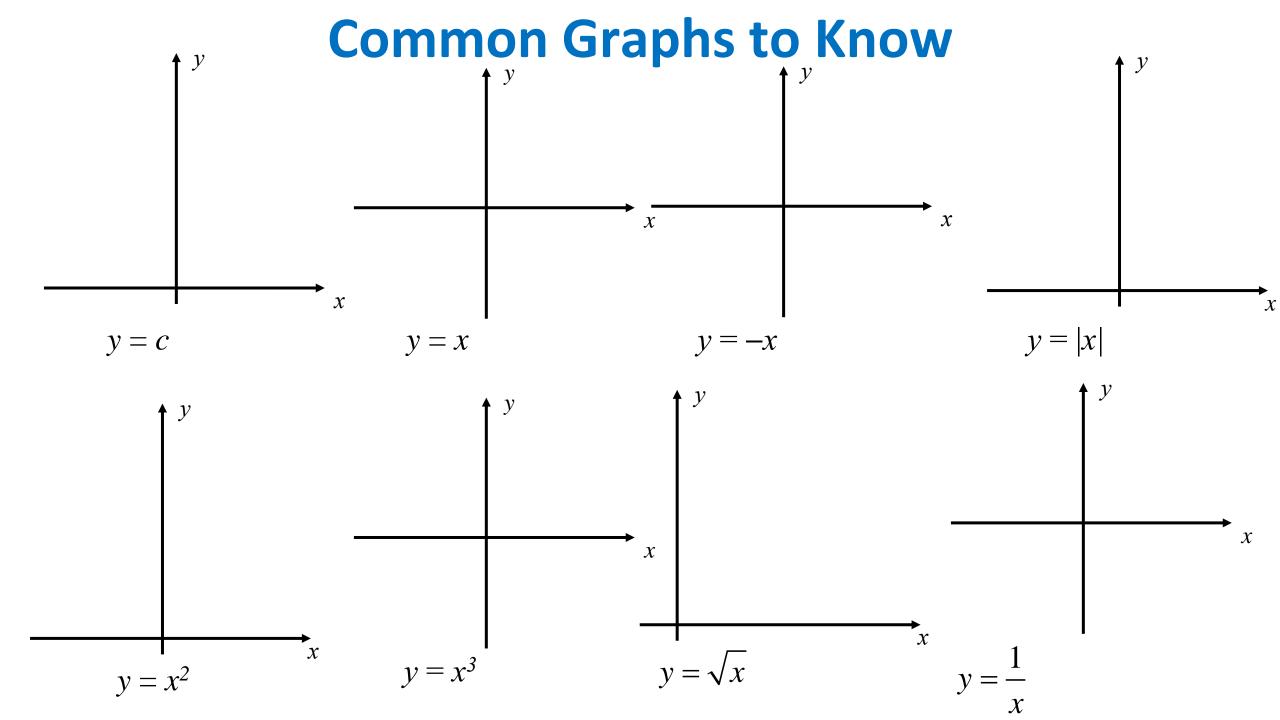
FAR BEYOND

MAT122 Transformations





Shifting Common Graphs

$$y = f(x) + C$$
 original graph moves up/down "C" units

$$y = f(x - C)$$
 original graph moves left/right "C" units in OPPOSITE DIRECTION!

Graphing with Shifts - Do

Use the common graphs to sketch the following:

$$y = |x| + 1$$

$$y = \sqrt{x} - 2$$

$$y = (x-3)^3$$

Reflections of Common Graphs

Reflection about the x-axis

$$y = -f(x)$$

Reflection about the y-axis

$$y = f(-x)$$