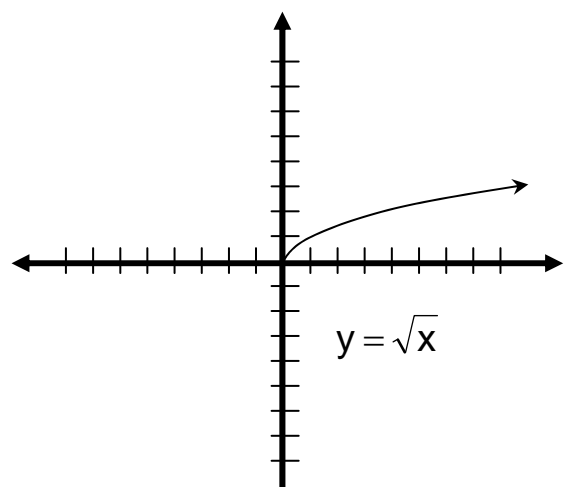
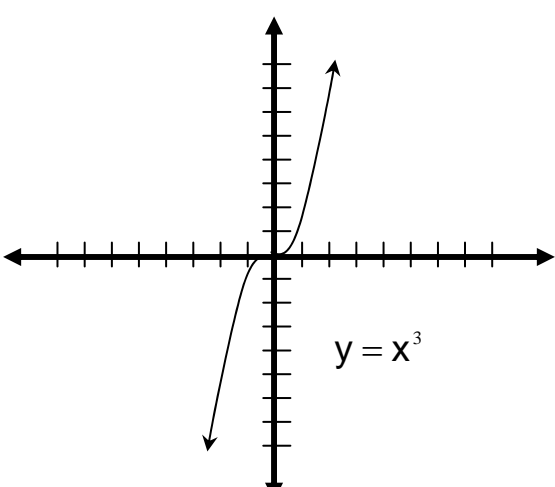
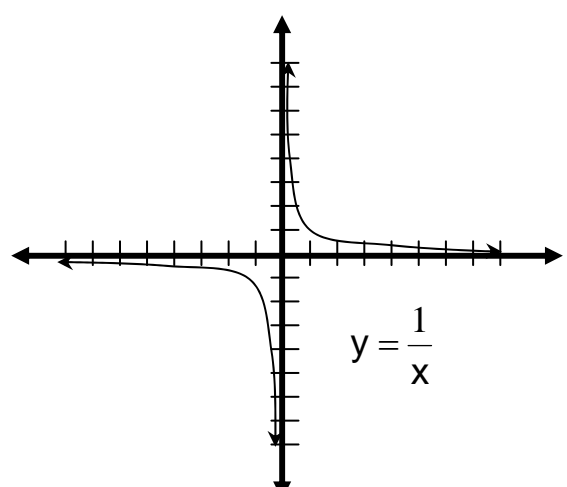
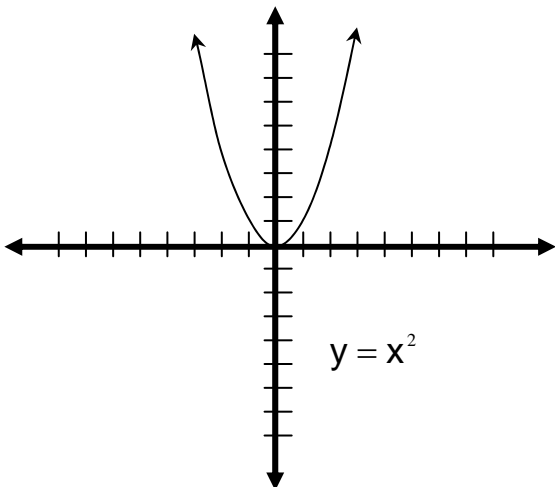
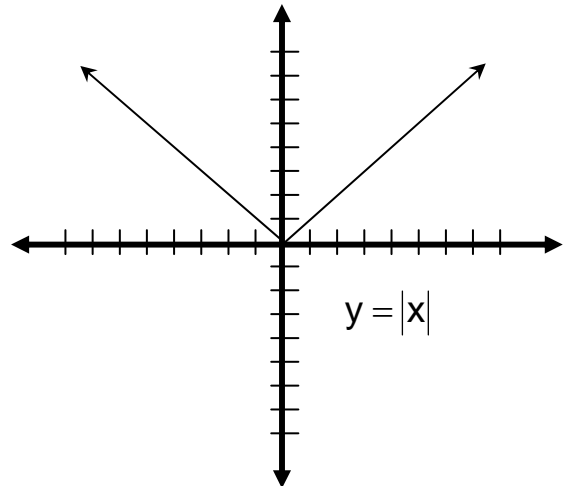
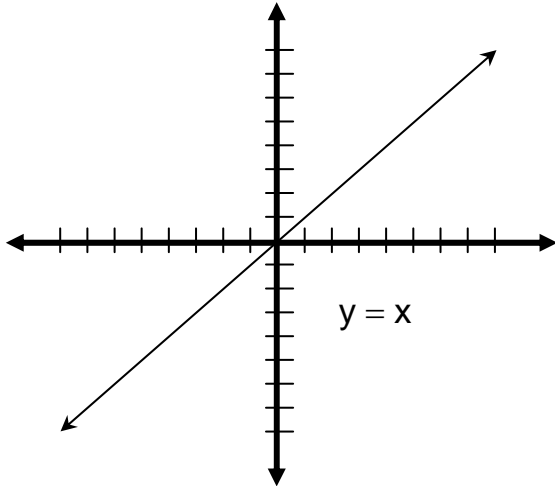




# Basic Graphing Techniques

Six common basic functions are shown below:





## Basic Graphing Techniques

### TRANSFORMATION OF BASIC FUNCTIONS

|                |  |
|----------------|--|
| $y = f(x) + c$ | Shift basic graph <b>upward c units.</b>       |
| $y = f(x) - c$ | Shift basic graph <b>downward c units.</b>     |
| $y = f(x + c)$ | Shift basic graph <b>c units to the left.</b>  |
| $y = f(x - c)$ | Shift basic graph <b>c units to the right.</b> |
| $y = -f(x)$    | Reflect basic graph about the <b>x-axis.</b>   |
| $y = f(-x)$    | Reflect basic graph about the <b>y-axis.</b>   |

EXAMPLE  $y = |x - 4| + 2$

BASIC FUNCTION  $y = |x|$

