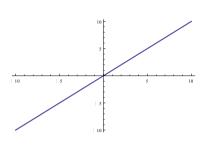
## **Graphs of Basic Functions**

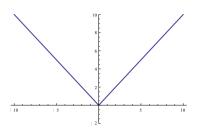
Linear Function

$$y = x$$



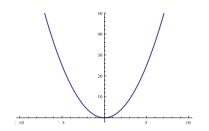
Absolute Function

$$y = |x|$$



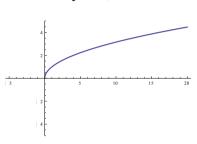
Quadratic Function

$$y = x^2$$



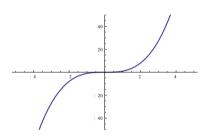
Square Root Function

$$y = \sqrt{x}$$



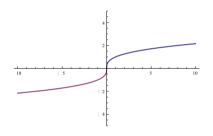
Cube Function

$$y = x^3$$



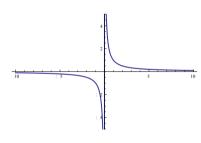
Cube Root Function

$$y = \sqrt[3]{x}$$



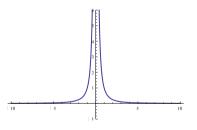
Rational Function (odd exponent)

$$y = \frac{1}{x}$$



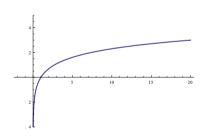
Rational function (even exponent)

$$y=\frac{1}{x^2}$$



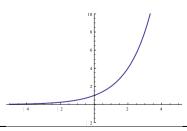
Log Function

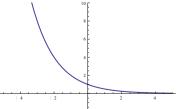
$$y = \log x$$
 and  $x > 0$ 



**Exponential Function** 

$$y = a^x$$
 if  $a > 1$ 





**Exponential Function**  $y = a^x$  if 0 < a < 1