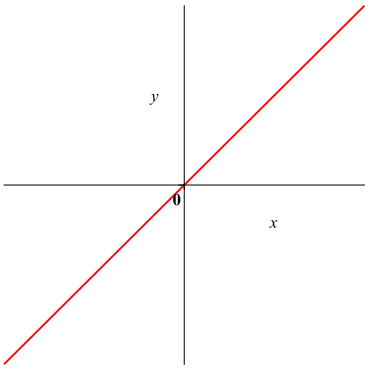
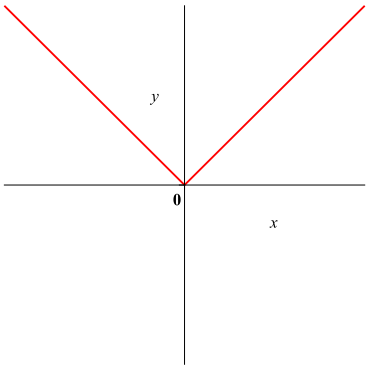
Basic Curves[1]

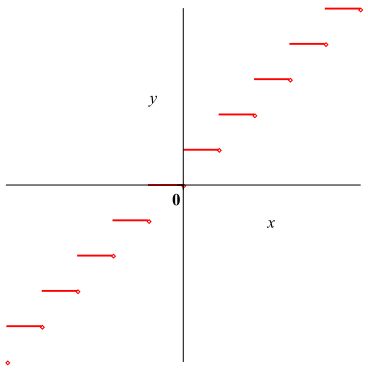
Line
$y = x$



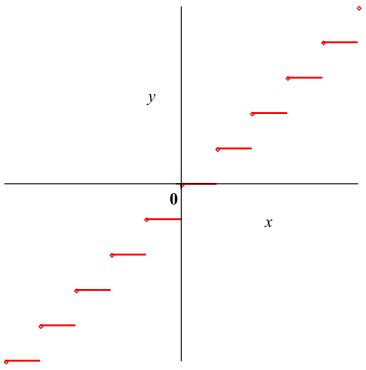
Absolute Value
$y = |x|$



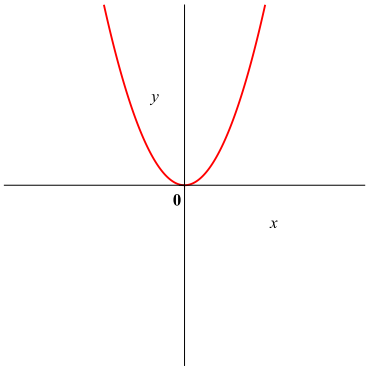
Ceiling
$y = \lceil x \rceil$



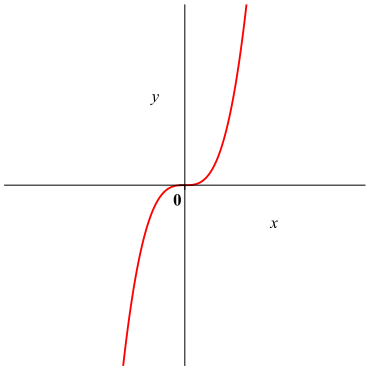
Floor
$y = \lfloor x \rfloor$



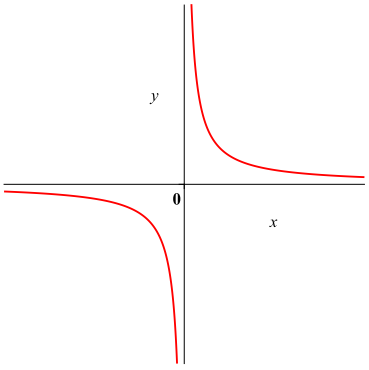
Parabola
$y = x^2$



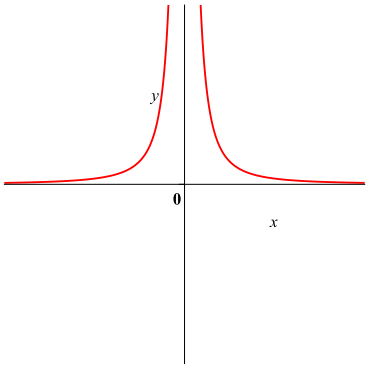
Cubic
$y = x^3$



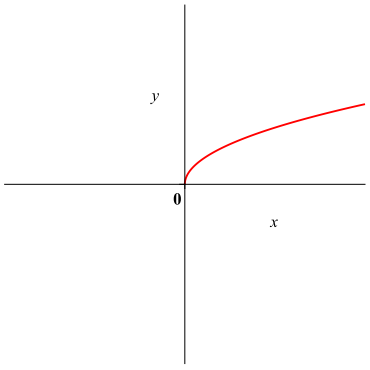
Reciprocal
$y = \dfrac{1}{x}$



Reciprocal Squared
$y = \dfrac{1}{x^2}$

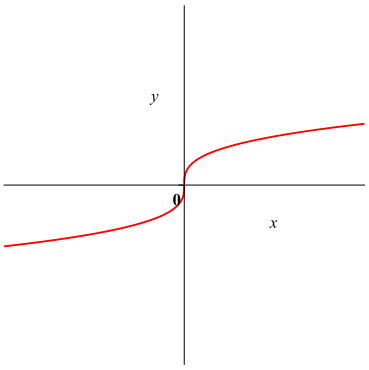


Square Root
$y = \sqrt{x}$

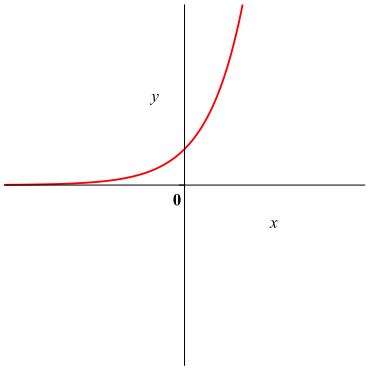


[1] see also Trigonometric and Hyperbolic Curves ASC (June 9, 2020)

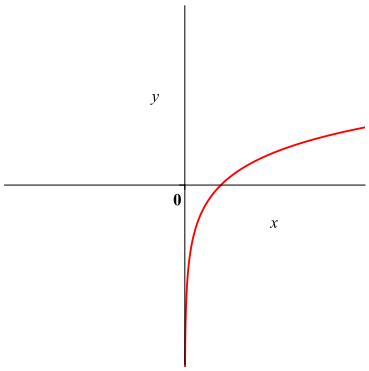
Cube Root
$y = \sqrt[3]{x}$



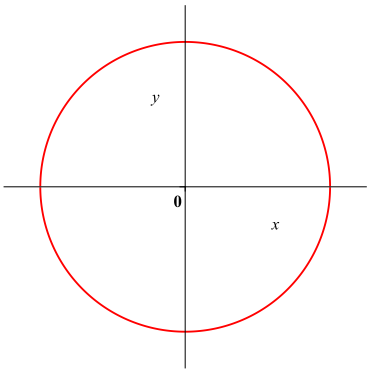
Exponential
$y = e^x$



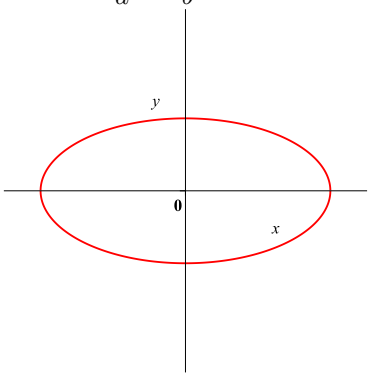
Logarithm
$y = \ln x$



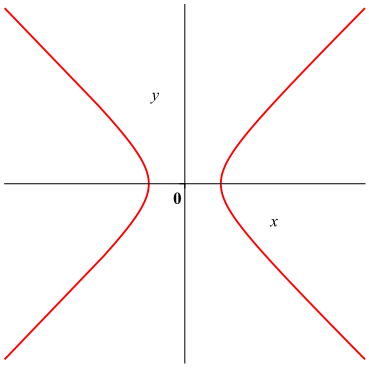
Circle
$x^2 + y^2 = r^2$



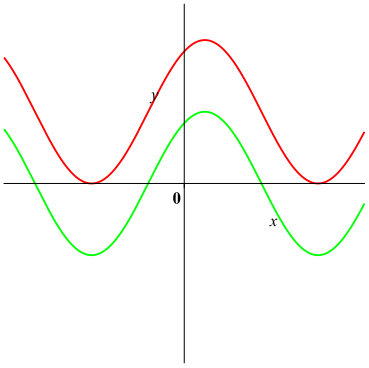
Ellipse
$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$



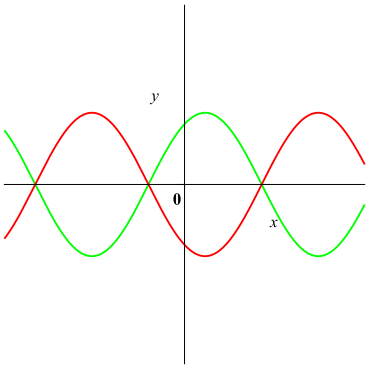
Hyperbola
$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$



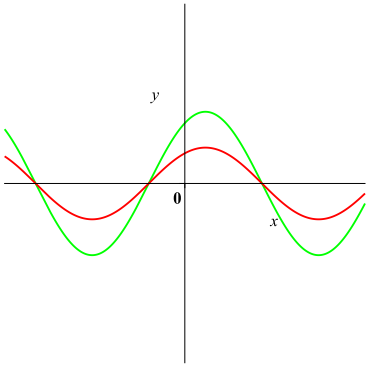
Vertical Translation
$y + c = f(x)$



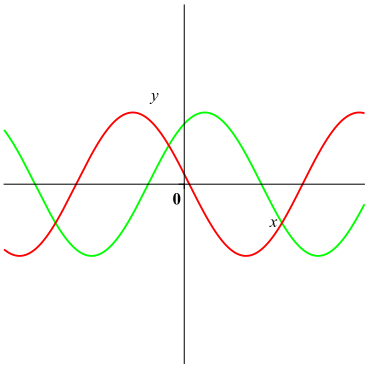
Vertical Reflection
$-y = f(x)$



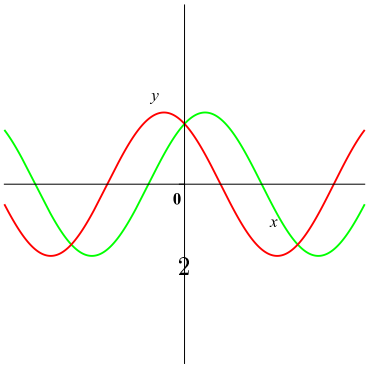
Vertical Compression
$cy = f(x)$



Horizontal Translation
$y = f(x + c)$



Horizontal Reflection
$y = f(-x)$



Horizontal Compression
$y = f(cx)$