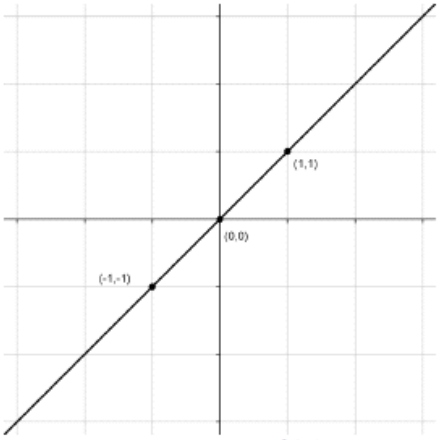
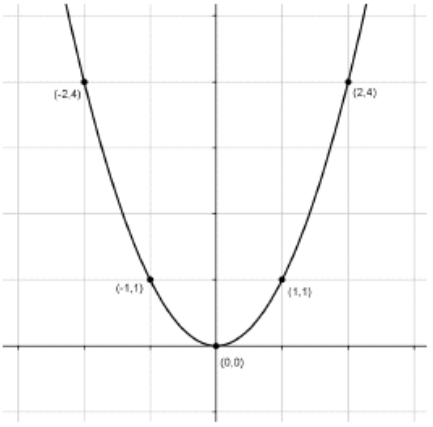
A Library of Functions

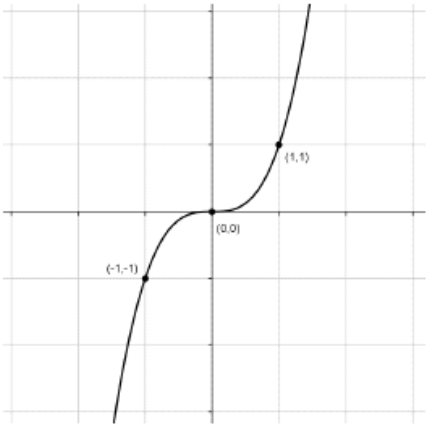
Thursday, November 06, 2014
12:07 PM



Identity Function: $f(x) = x$



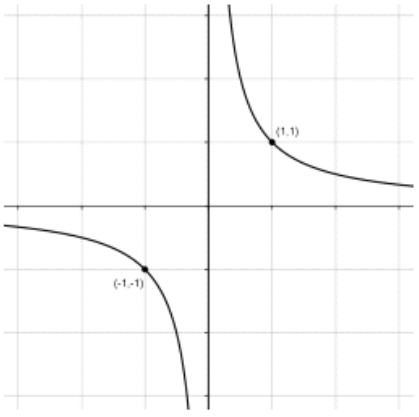
Square Function: $f(x) = x^2$



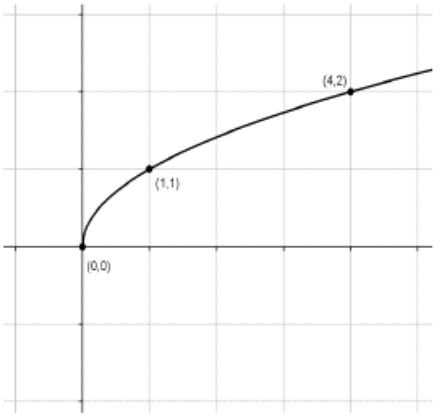
Cube Function: $f(x) = x^3$

Polynomial functions:

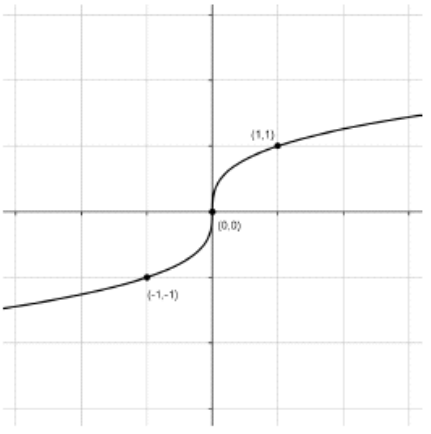
$$f(x) = a_n x^n + a_{n-1} x^{n-1} + a_{n-2} x^{n-2} + \cdots + a_1 x + a_0$$



Reciprocal Function : $f(x) = \frac{1}{x}$

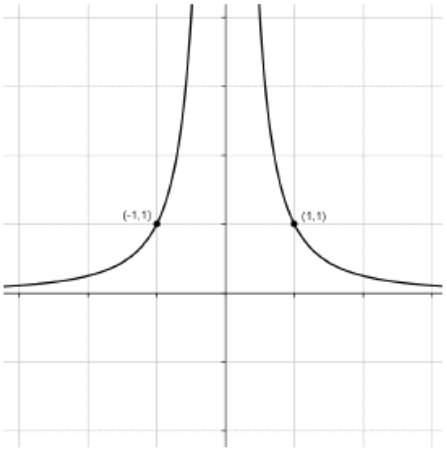


Square Root Function: $f(x) = \sqrt{x}$

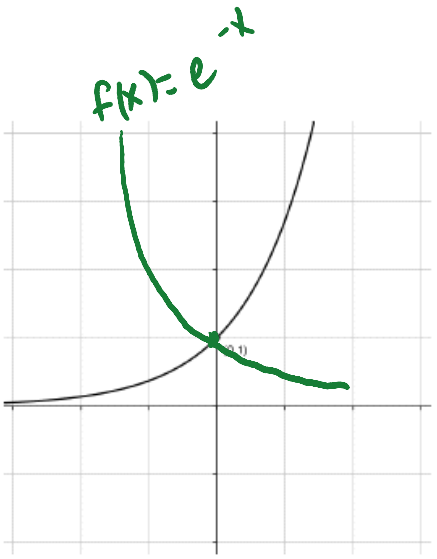


Cube Root Function: $f(x) = \sqrt[3]{x}$

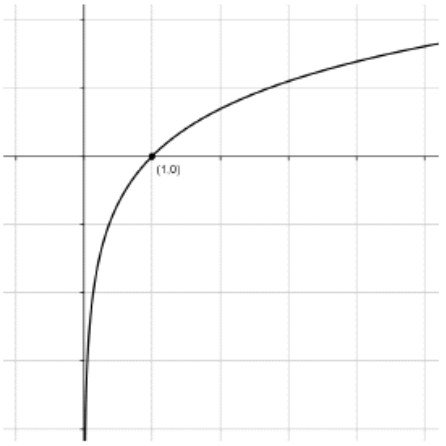
↑ rational fctns



$f(x) = \frac{1}{x^2}$

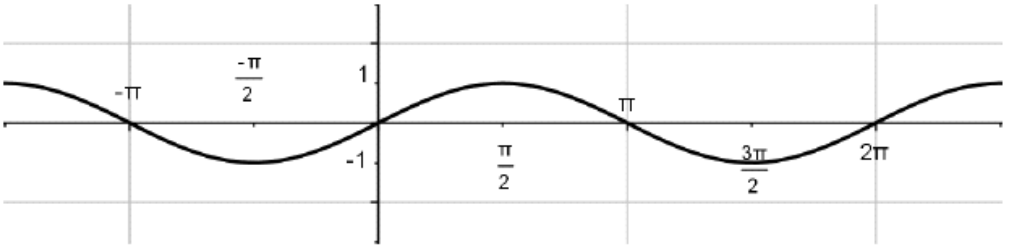


Exponential Function: $f(x) = e^x$

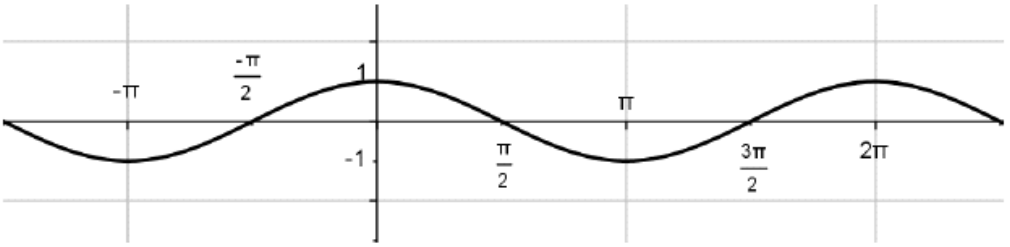


Natural Logarithm Function: $f(x) = \ln(x)$

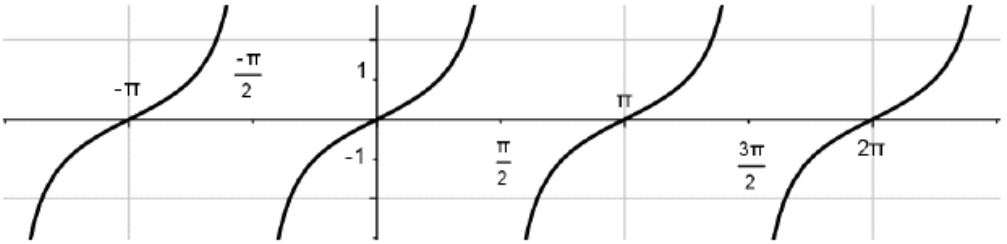
$f(x) = e^{-x}$



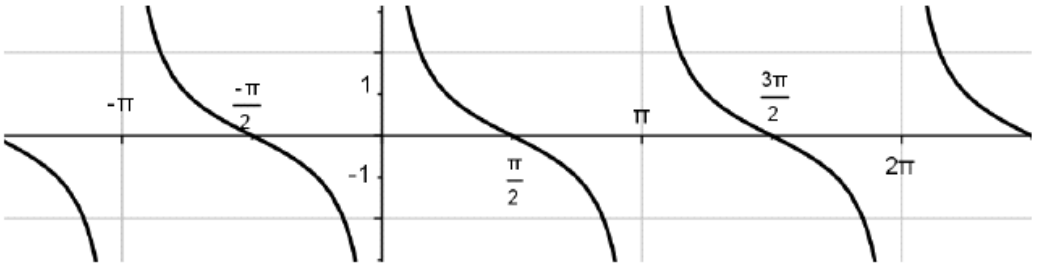
Sine Function
$f(x) = \sin(x)$



Cosine Function
$f(x) = \cos(x)$

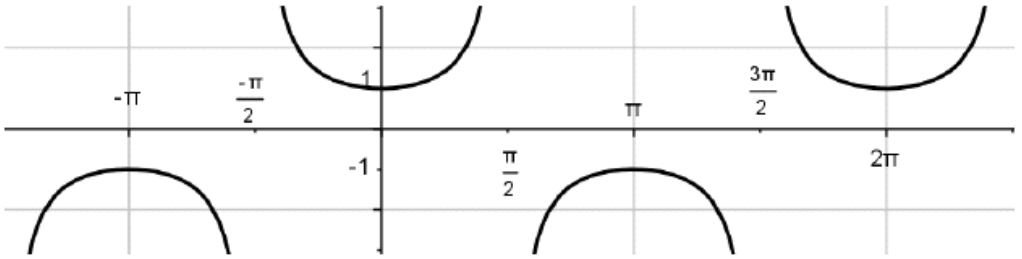


Tangent Function
$f(x) = \tan(x)$



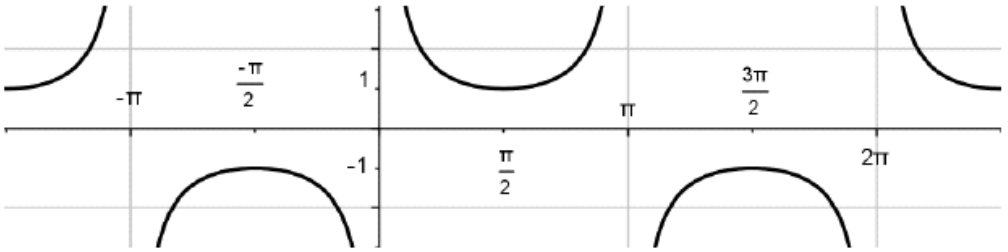
Cotangent Function

$f(x) = \cot(x)$



Secant Function

$f(x) = \sec(x)$



Cosecant Function

$f(x) = \csc(x)$