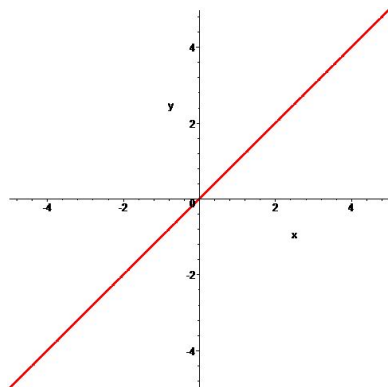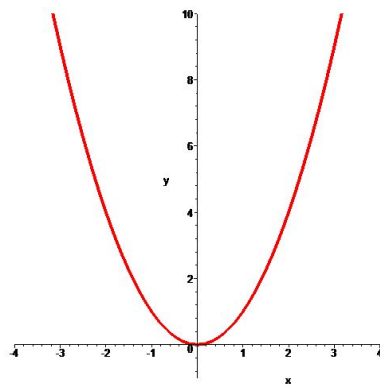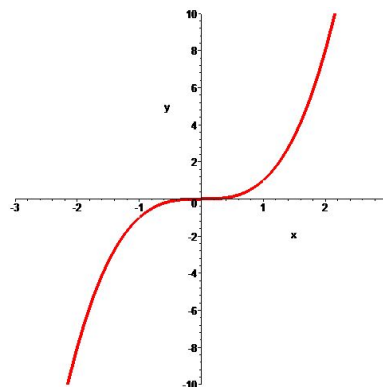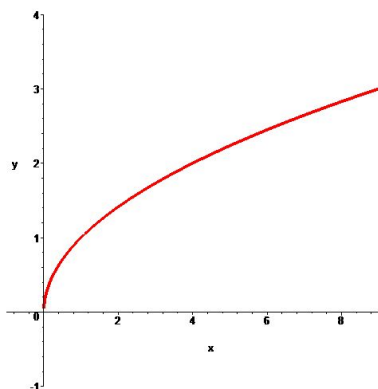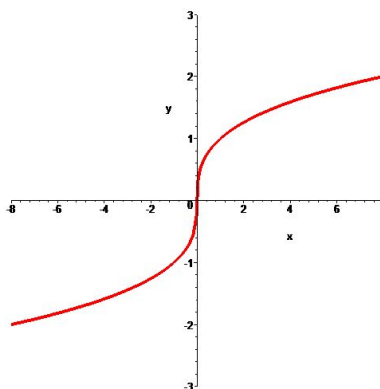# Table of Common Graphs

Linear Function
x

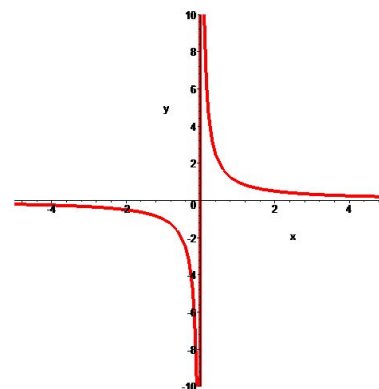Even Degree Polynomial
$x^2, x^4, x^6, \ldots, x^{2n}$

Odd Degree Polynomial
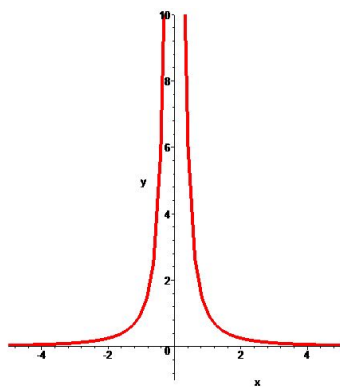$x^3, x^5, x^7, \ldots, x^{2n+1}$

Even Root
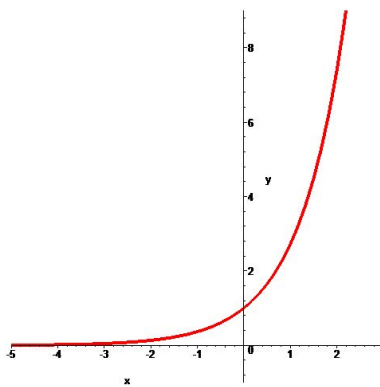$\sqrt[2]{x}, \sqrt[4]{x}, \sqrt[6]{x}, \ldots, \sqrt[2n]{x}$

Odd Root
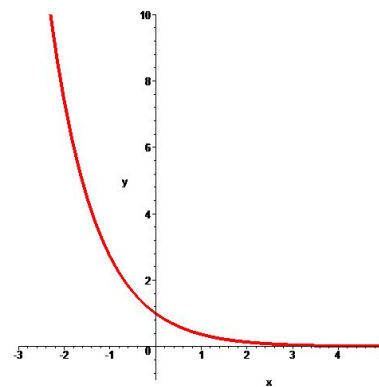$\sqrt[3]{x}, \sqrt[5]{x}, \sqrt[7]{x}, \ldots, \sqrt[2n+1]{x}$

One over an Odd Power
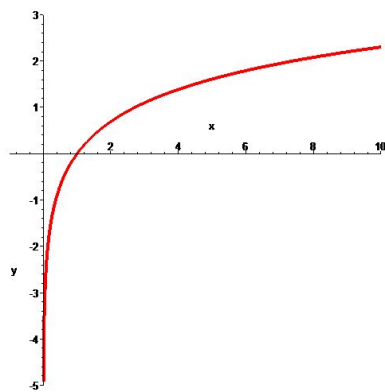$\dfrac{1}{x}, \dfrac{1}{x^3}, \dfrac{1}{x^5}, \ldots, \dfrac{1}{x^{2n+1}}$

One over an Even Power
$\dfrac{1}{x^2}, \dfrac{1}{x^4}, \dfrac{1}{x^6}, \ldots, \dfrac{1}{x^{2n}}$
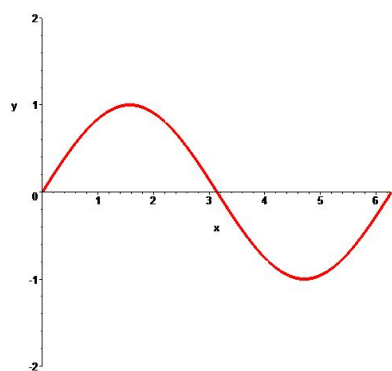

Exponential Growth
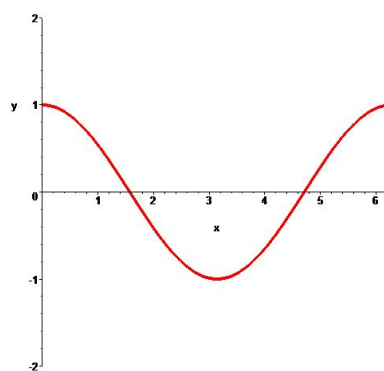$2^x, e^x, 7^x, \ldots, a^x, \ a > 1$

Exponential Decay
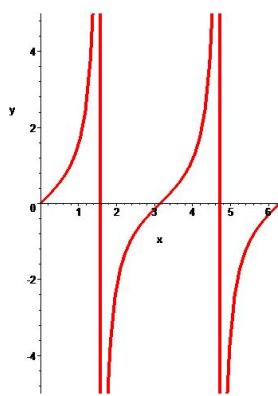$2^{-x}, e^{-x}, 7^{-x}, \ldots, a^{-x}, \ a > 1$
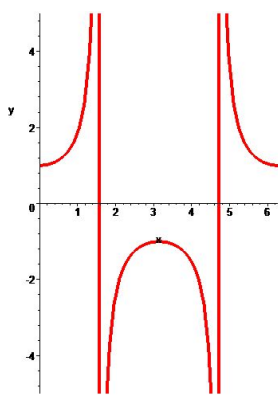
Log function
$\log_a(x)$
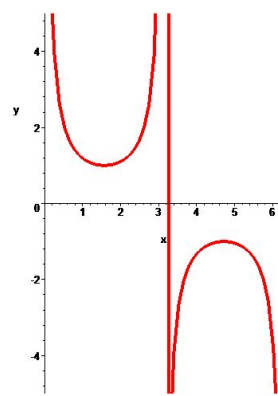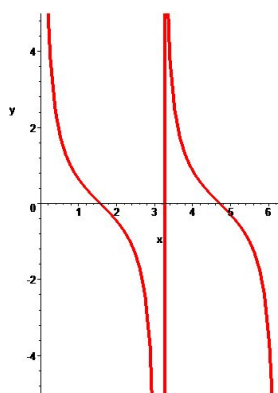

Sine
$\sin(x)$

Cosine
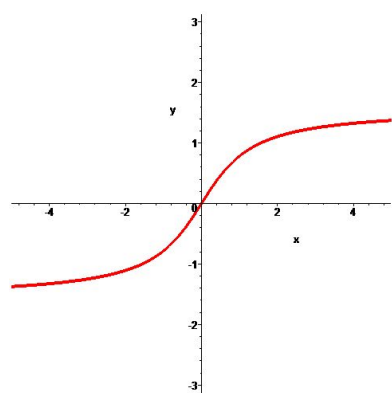$\cos(x)$

Tangent
$\tan(x)$

Secant
$\sec(x)$

Cosecant
$\csc(x)$

Cotangent
$\cot(x)$

Arctangent
$\arctan(x)$