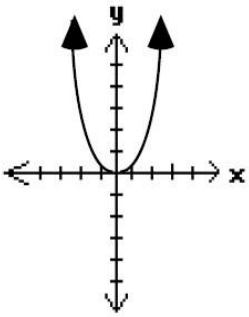
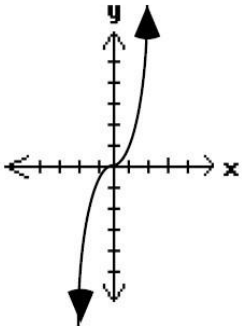
General Graph Forms, Translations and Reflections

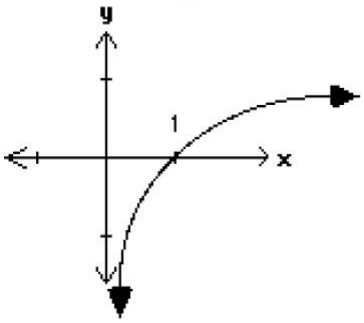
$y = x^{(even)}$



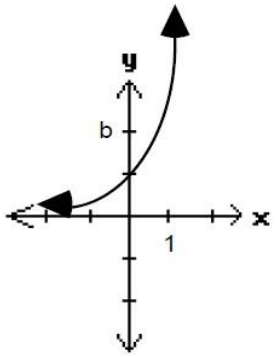
$y = x^{(odd)}$



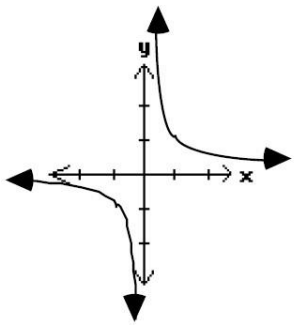
$y = \log_b x, \ (b>1)$



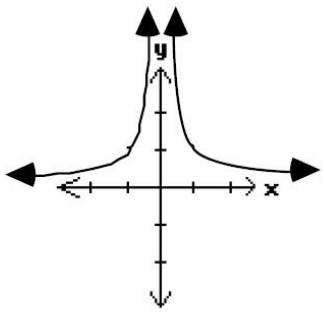
$y = b^x, \ (b>1)$



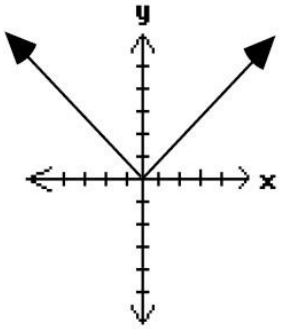
$y = \frac{1}{x^{(odd)}}$



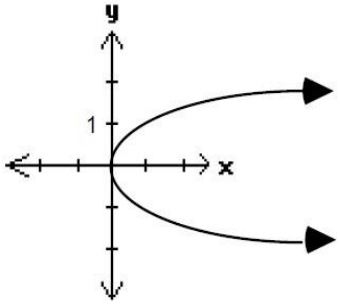
$y = \frac{1}{x^{(even)}}$



$y = |x|$



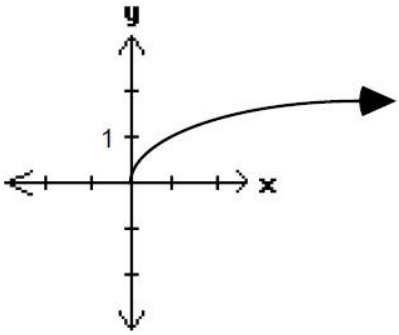
$y = \pm\sqrt{x}$



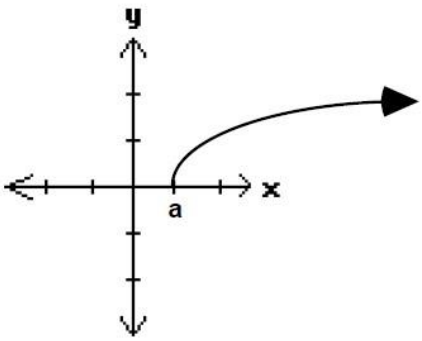
See Back for Examples using transformations and reflections

A Specific Example with Translations

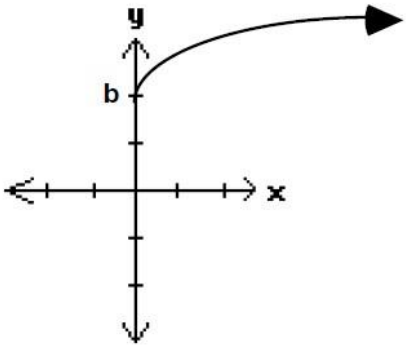
$y = \sqrt{x}$ **basic form**



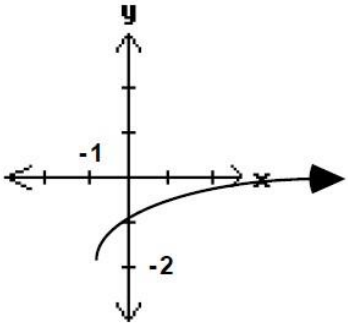
$y = \sqrt{x-a}$ **right a units**



$y = \sqrt{x} + b$ **up b units**

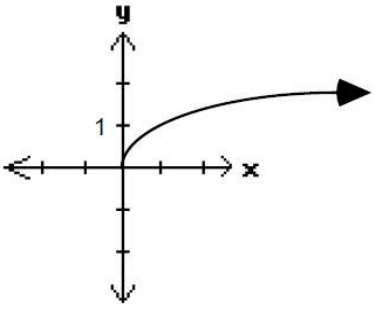


$y = \sqrt{x+1} - 2$ **left 1 & down 2 units**

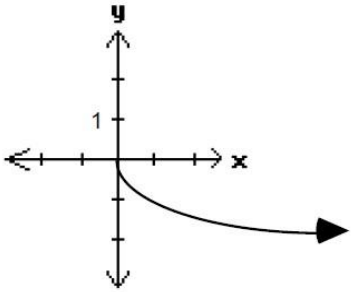


A Specific Example with Reflections

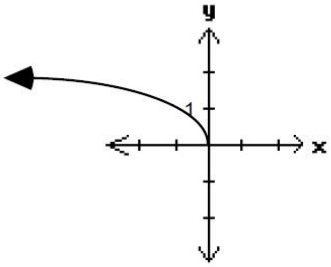
$y = \sqrt{x}$ **basic form**



$y = -\sqrt{x}$ **about x-axis**



$y = \sqrt{-x}$ **about y-axis**



$y = -\sqrt{-x}$ **about origin**