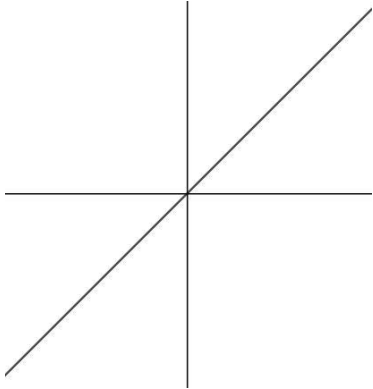
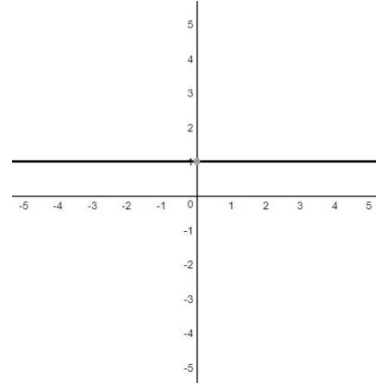


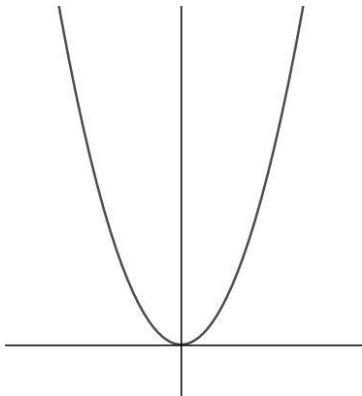
The Basic Shape Functions



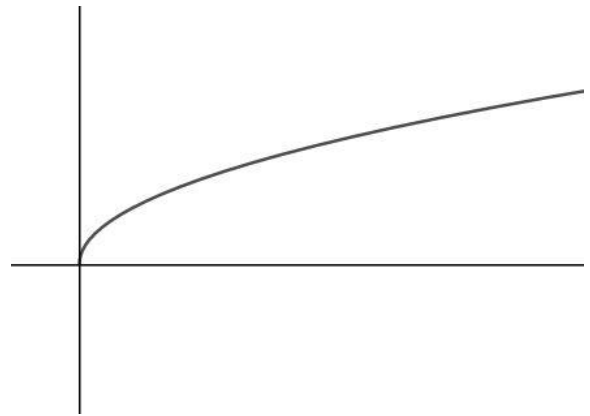
The Identity Function: $i(x) = x$
Domain: $\mathbb{R}$ Range: $\mathbb{R}$



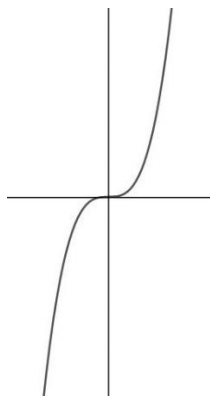
The Constant Function at 1: $con_1(x) = 1$
Domain: $\mathbb{R}$ Range: $\{1\}$



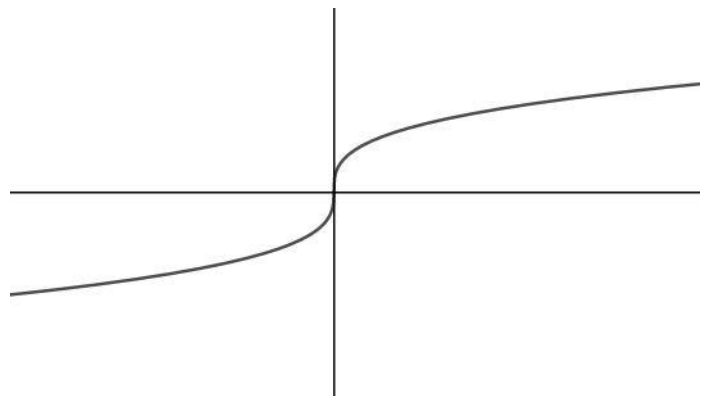
The Square Function: $sqr(x) = x^2$
Domain: $\mathbb{R}$ Range: $[0, \infty)$



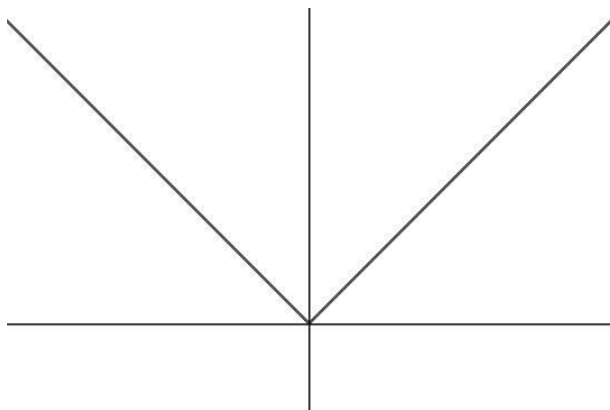
The Square Root Function: $sqr(x) = \sqrt{x}$
Domain: $[0, \infty)$ Range: $[0, \infty)$



The Cube Function: $cube(x) = x^3$
Domain: $\mathbb{R}$ Range: $\mathbb{R}$

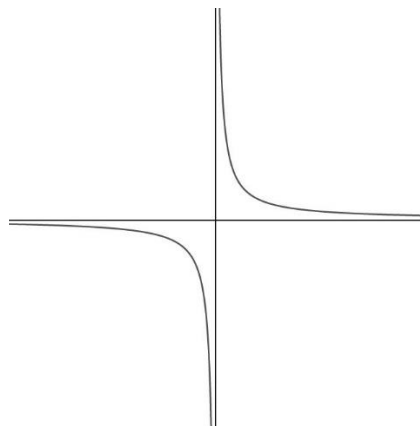


The Cube Root Function: $cbrt(x) = \sqrt[3]{x}$
Domain: $\mathbb{R}$ Range: $\mathbb{R}$



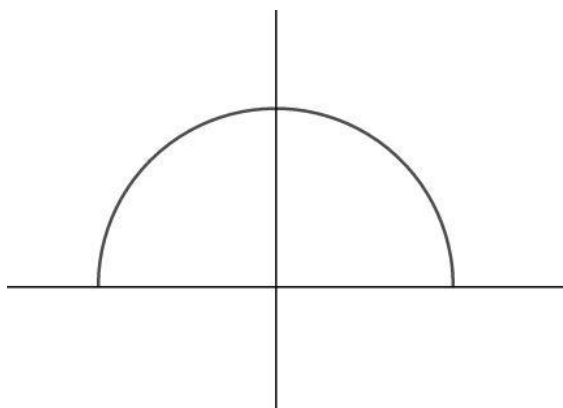
The Absolute Value Function: $abs(x) = |x|$

Domain: $\mathbb{R}$ Range: $[0, \infty)$



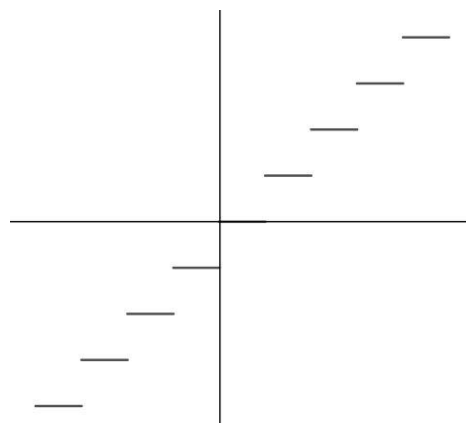
The Reciprocal Function: $recip(x) = \frac{1}{x}$

Domain: $\mathbb{R} - \{0\}$ Range: $\mathbb{R} - \{0\}$



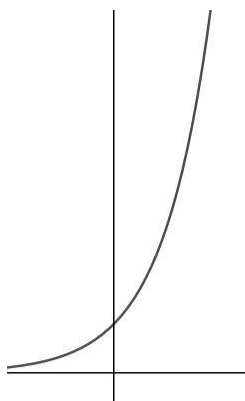
The Semi-Circle Function: $semi(x) = \sqrt{1 - x^2}$

Domain: $[-1, 1]$ Range: $[0, 1]$



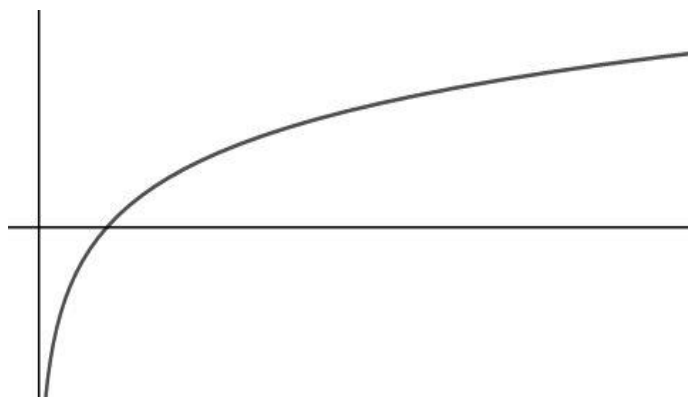
The Greatest Integer Function: $\text{int}(x) = x$

Domain: $\mathbb{R}$ Range: The Integers, $\mathbb{Z}$



The Exponential Function: $\exp(x) = e^x$

Domain: $\mathbb{R}$ Range: $(0, \infty)$



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

Domain: $(0, \infty)$ Range: $\mathbb{R}$