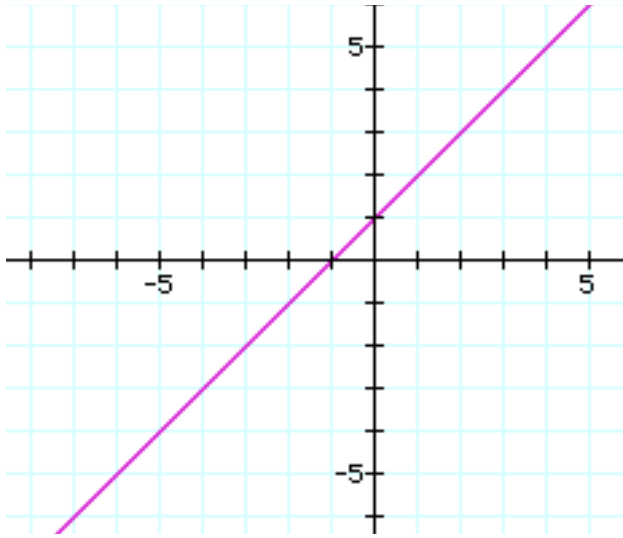


Library of Functions

Linear Function: $f(x) = mx + b$

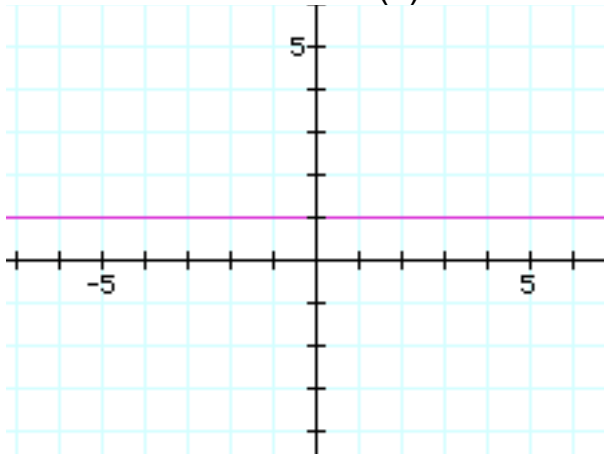


Domain:

Intervals over which f is increasing:

Intervals over which f is decreasing:

Constant Function: $f(x) = c$

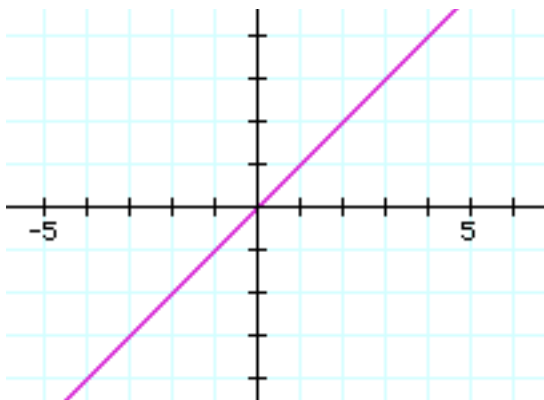


Domain:

Intervals over which f is increasing:

Intervals over which f is decreasing:

Identity Function: $f(x) = x$



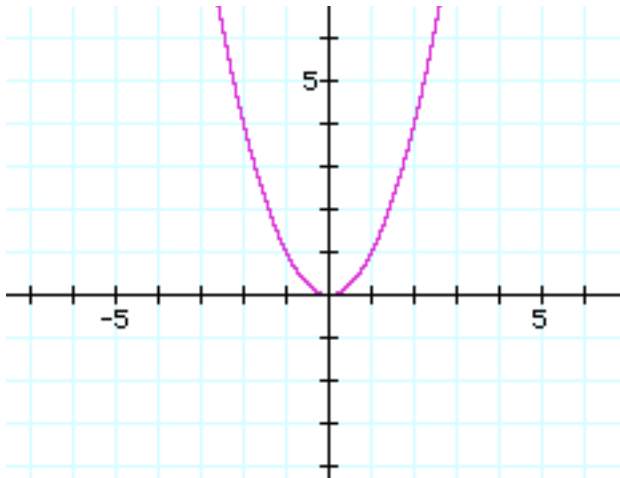
Domain:

Intervals over which f is increasing:

Intervals over which f is decreasing:

Library of Functions

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

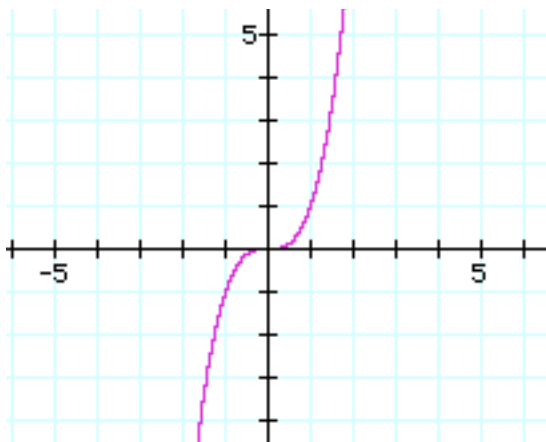


Domain:

Intervals over which f is increasing:

Intervals over which f is decreasing:

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

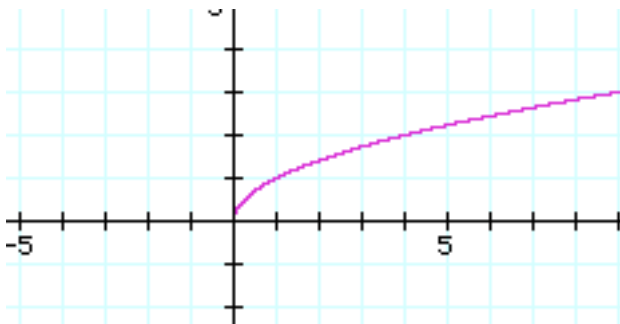


Domain:

Intervals over which f is increasing:

Intervals over which f is decreasing:

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



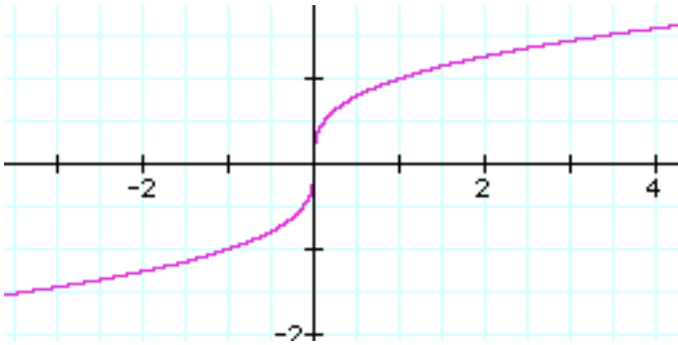
Domain:

Intervals over which f is increasing:

Intervals over which f is decreasing:

Library of Functions

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

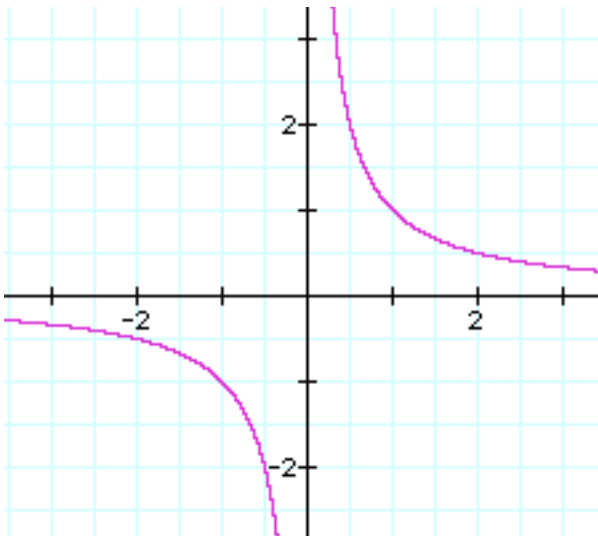


Domain:

Intervals over which f is increasing:

Intervals over which f is decreasing:

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

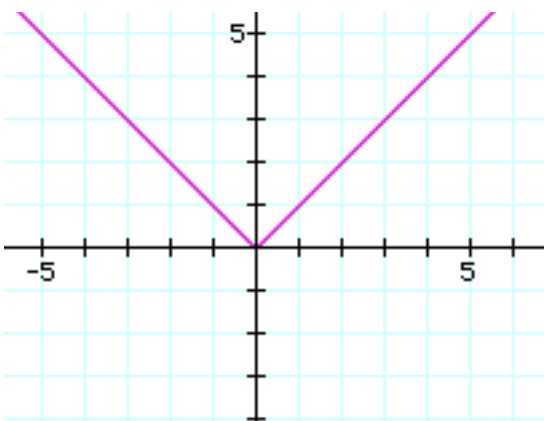


Domain:

Intervals over which f is increasing:

Intervals over which f is decreasing:

Absolute Value Function: $f(x) = |x|$



Domain:

Intervals over which f is increasing:

Intervals over which f is decreasing: