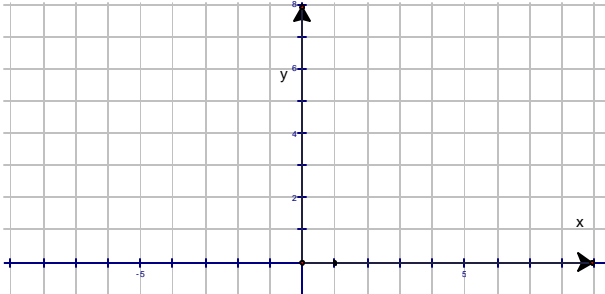


2.6 Graphs of Basic Functions

Constant Function $f(x) = k, k \in \mathbb{R}$



Domain:

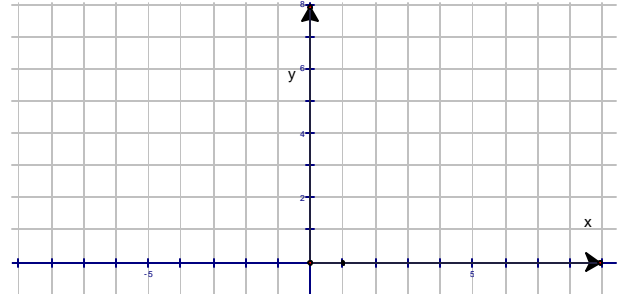
Range:

Intercepts:

Increasing / Decreasing:

Constant:

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



Domain:

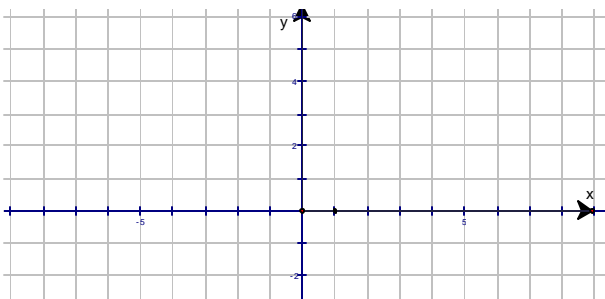
Range:

Intercepts:

Increasing / Decreasing:

Constant:

Identity Function $f(x) = x$



Domain:

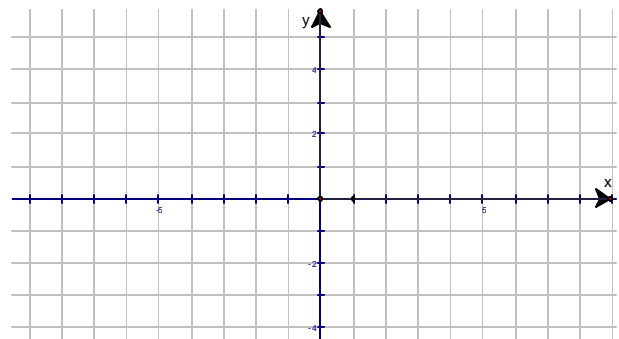
Range:

Intercepts:

Increasing / Decreasing:

Constant:

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



Domain:

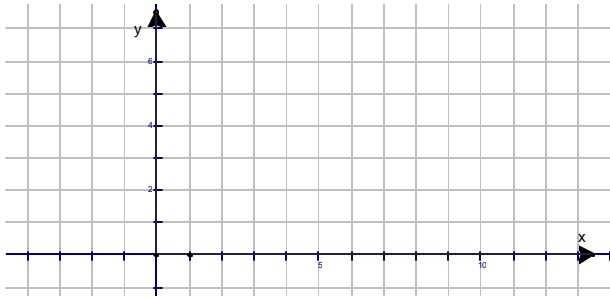
Range:

Intercepts:

Increasing / Decreasing:

Constant:

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



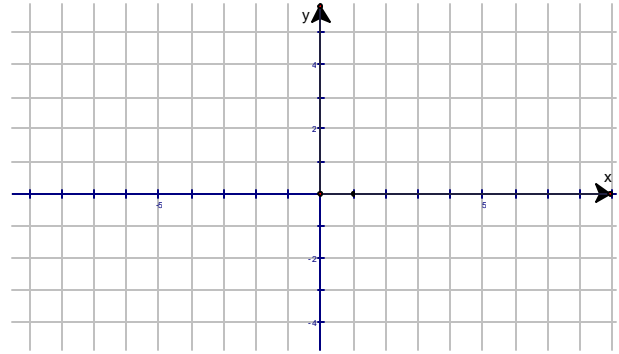
Domain: Range:

Intercepts:

Increasing / Decreasing:

Constant:

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



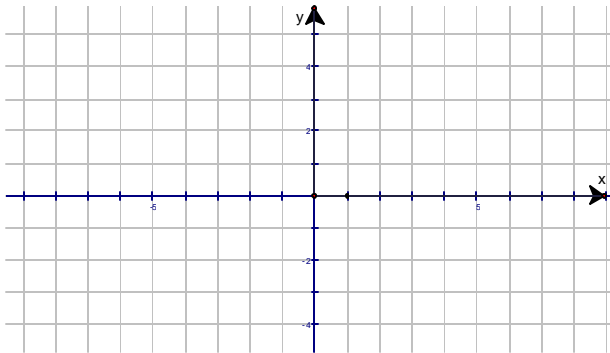
Domain: Range:

Intercepts:

Increasing / Decreasing:

Constant:

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



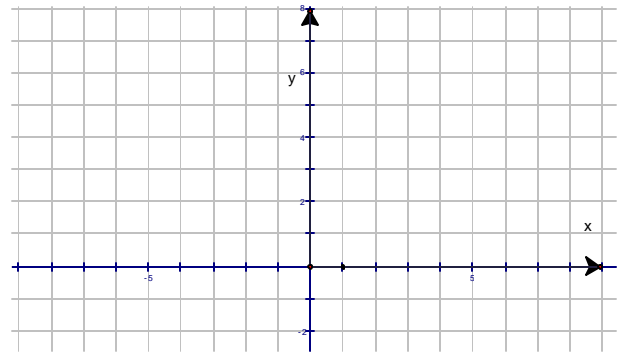
Domain: Range:

Intercepts:

Increasing / Decreasing:

Constant:

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



Domain: Range:

Intercepts:

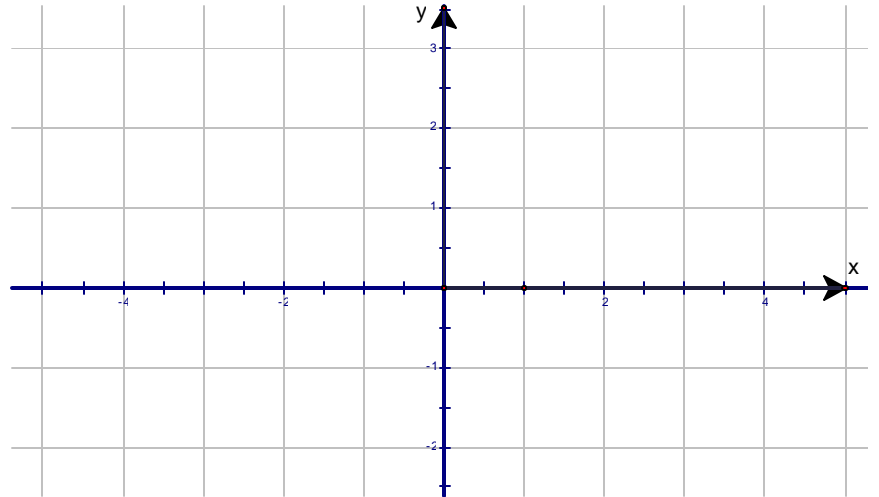
Increasing / Decreasing:

Constant:

Greatest Integer Function

$$f(x) = \text{int}(x)$$

The greatest integer less than or equal to x .



Domain:

Range:

Intercepts:

Increasing / Decreasing:

Constant: