Name _____
Date _____ Period _____

Parent Functions

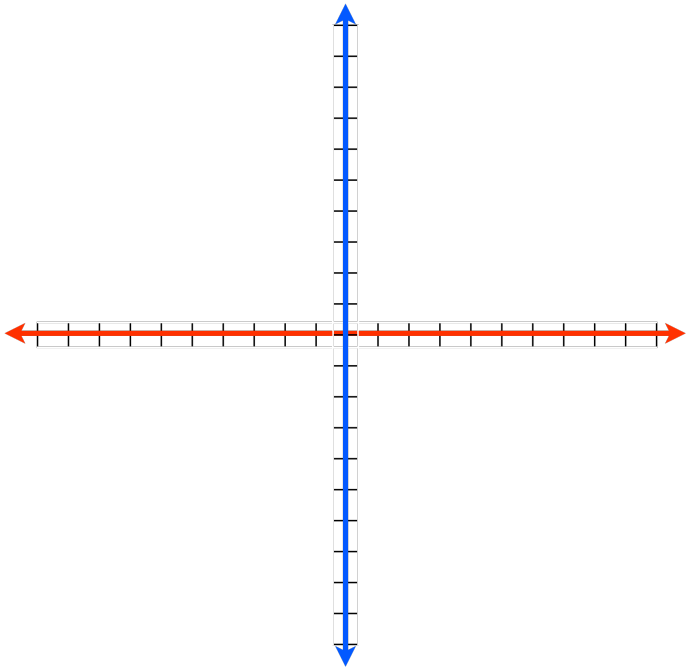
Functions that give a shape a particular function

1. Identity Function
2. Square Function
3. Cube Function
4. Square Root Function
5. Cube Root Function
6. Reciprocal Function
7. Absolute Value Function
8. Exponential Function
9. Logarithmic Function

Identity Function

$f(x) = x$

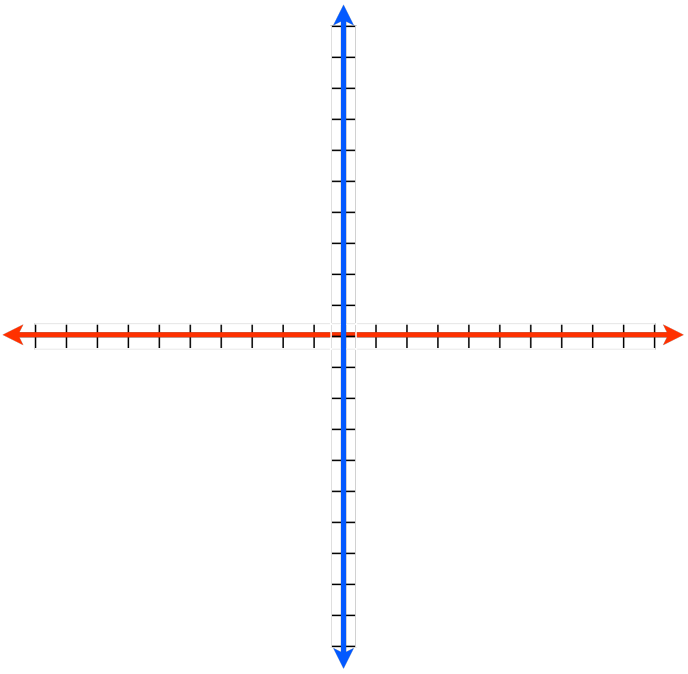
$y = x$



Square Function

$f(x) = x^2$

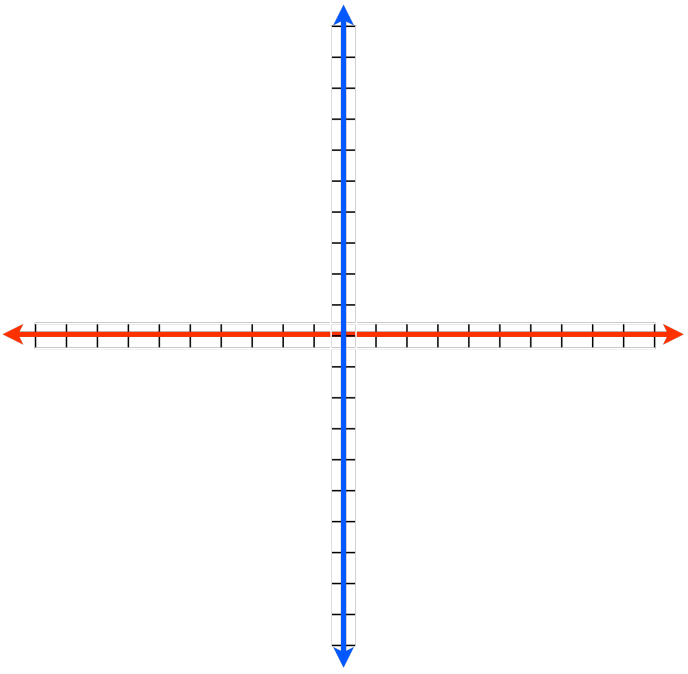
$y = x^2$



Cube Function

$f(x) = x^3$

$y = x^3$



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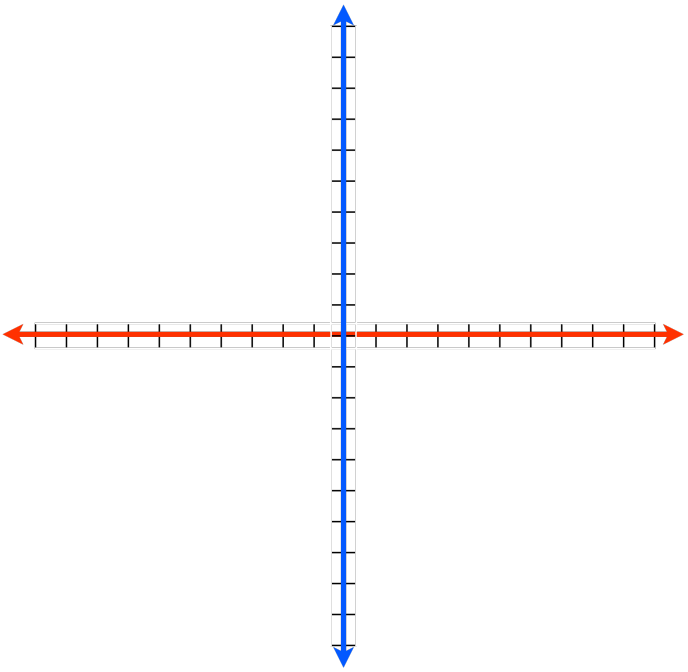
Square Root Function

$$f(x) = \sqrt{x}$$

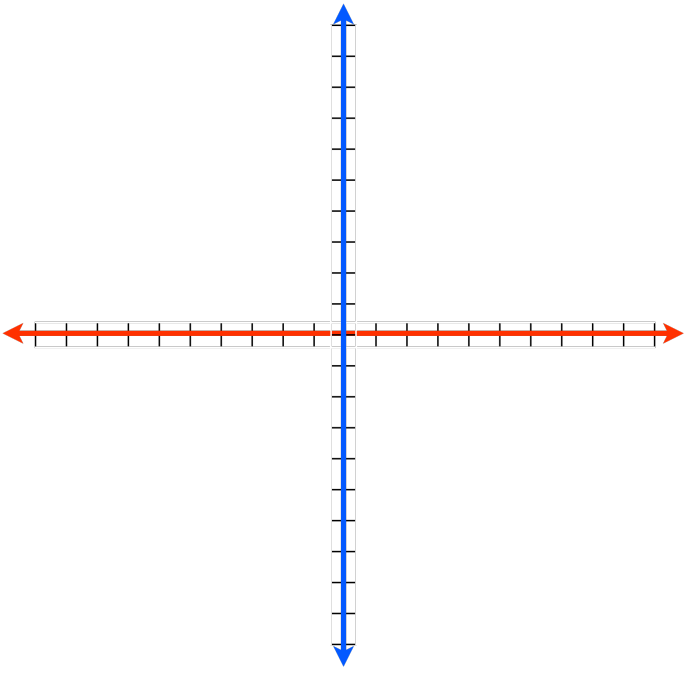
$$y = \sqrt{x}$$



Cube Root Function

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

$$y = \sqrt[3]{x}$$



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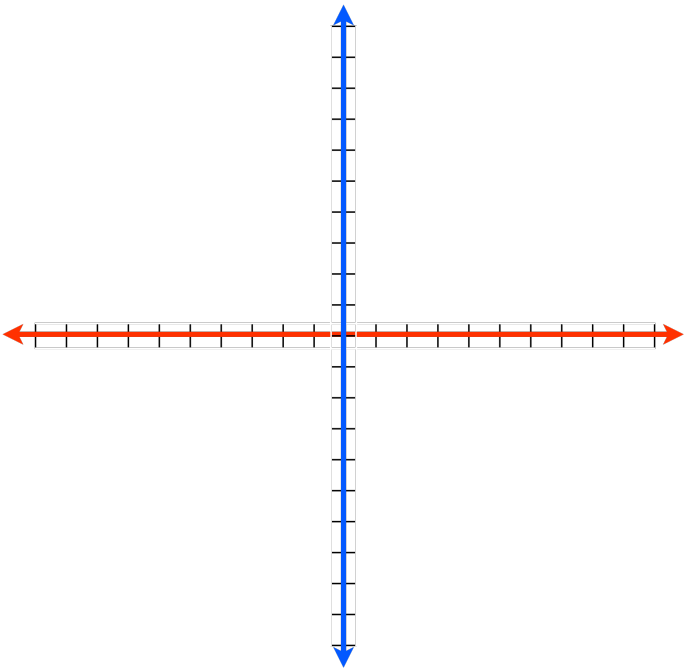
Rational Function

Reciprocal Function

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

$$y = \frac{1}{x}$$

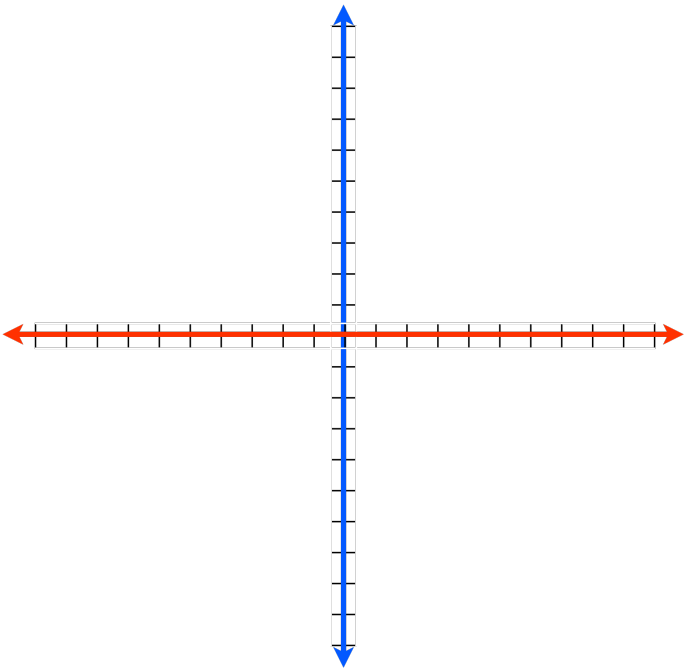


Rational Function

Reciprocal Function

$$f(x) = \frac{1}{x^2}$$

$$y = \frac{1}{x^2}$$



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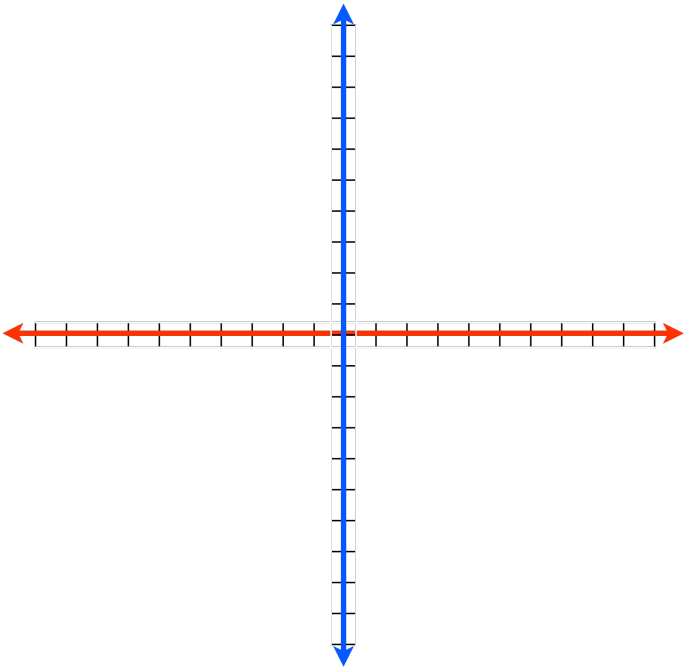
Absolute Value Function

$f(x) = |x|$

$y = |x|$

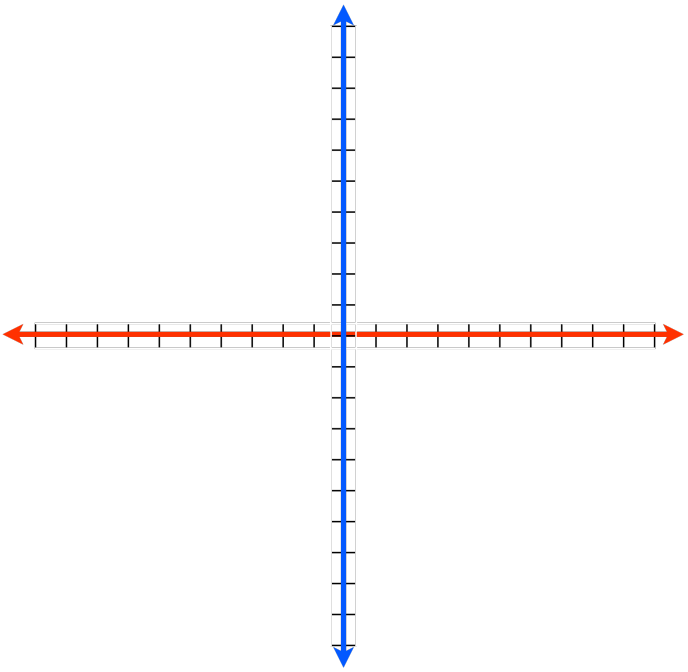


Exponential Function

$f(x) = a^x$

$y = a^x$

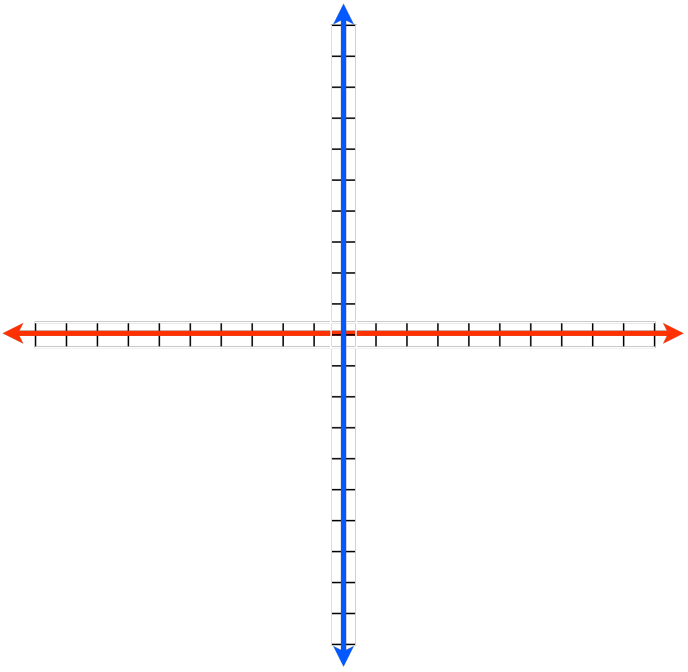
$a = 2$



Logarithmic Function

$f(x) = \log x$

$y = \log x$

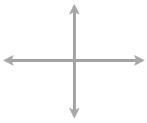


Parent Functions

Functions that give a shape a particular function

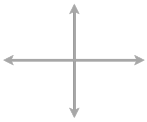
1. Identity Function

$f(x) = x$



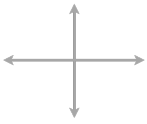
2. Square Function

$f(x) = x^2$



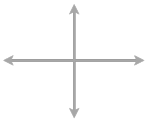
3. Cube Function

$f(x) = x^3$



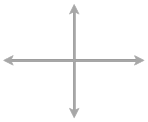
4. Square Root Function

$f(x) = \sqrt{x}$



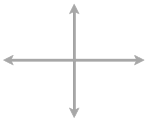
5. Cube Root Function

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



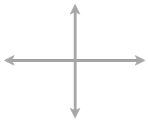
6. Reciprocal Function

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



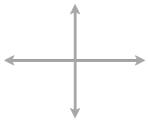
7. Absolute Value Function

$f(x) = |x|$



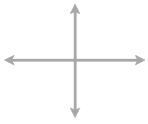
8. Exponential Function

$f(x) = a^x$



9. Logarithmic Function

$f(x) = \log x$



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