Reflecting Over the Y-Axis

Name _____

Date _____ Period _____

Given Function $y = f(x)$, then the equation...

$$y = f(b \cdot x)$$

where $b < 0$ (b is negative), causes a reflection over the y-axis.

Parent Function $y = f(x)$

After Transformations $y = f(b \cdot x)$

Square Function

$y = x^2$

Absolute Value Function

$y = |x|$

Logarithmic Function

$y = \log x$

Cube Function

$y = x^3$

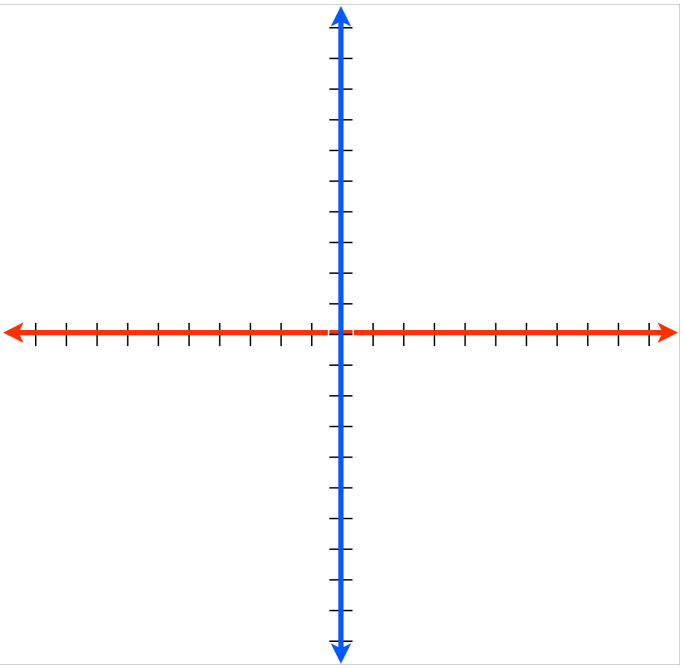
Square Root Function

$y = \sqrt{x}$

Square Function

$y = x^2$

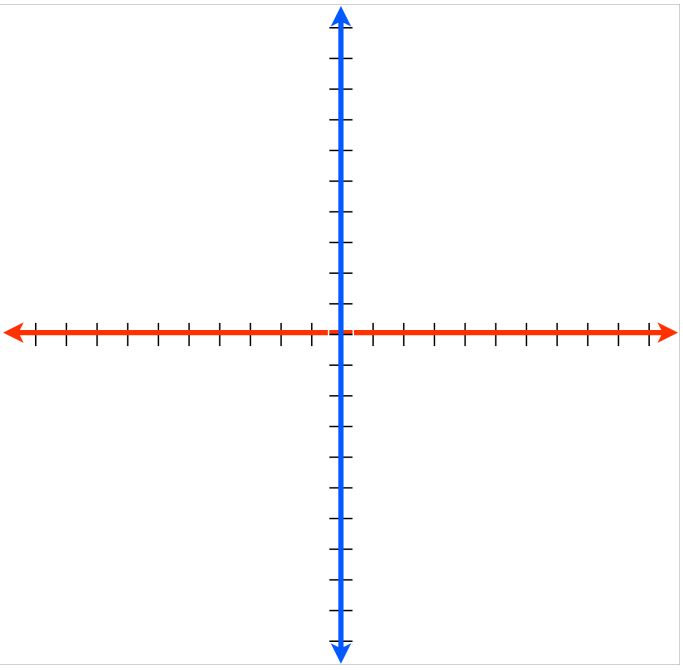
$y = (-x)^2$



Absolute Value Function

$y = |x|$

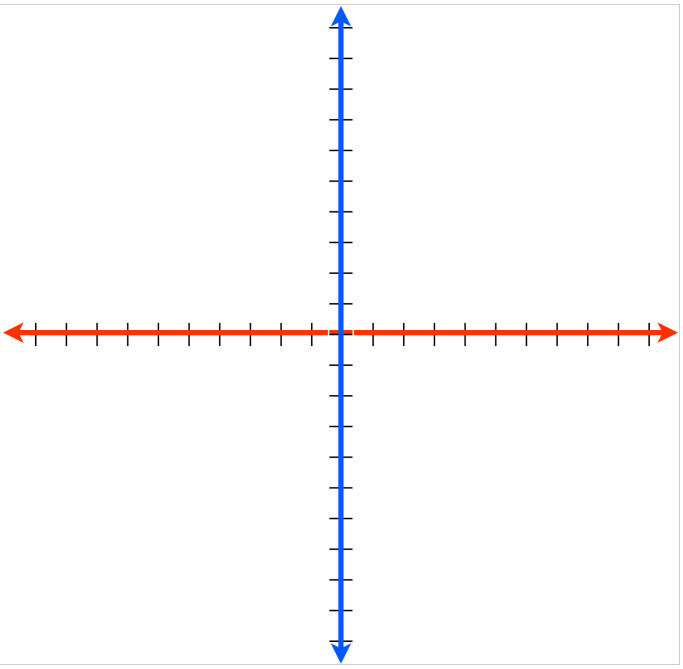
$y = |-x|$



Square Root Function

$y = \sqrt{x}$

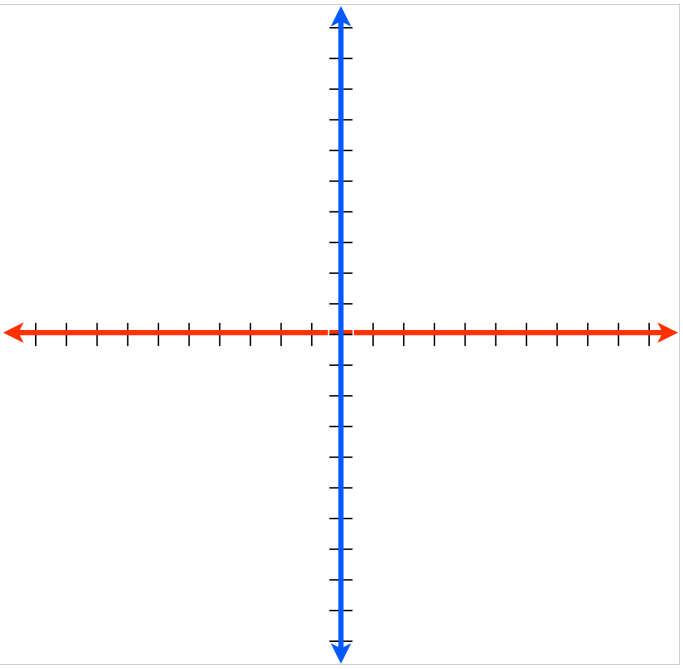
$y = \sqrt{-x}$



Square Root Function

$y = \sqrt{x}$

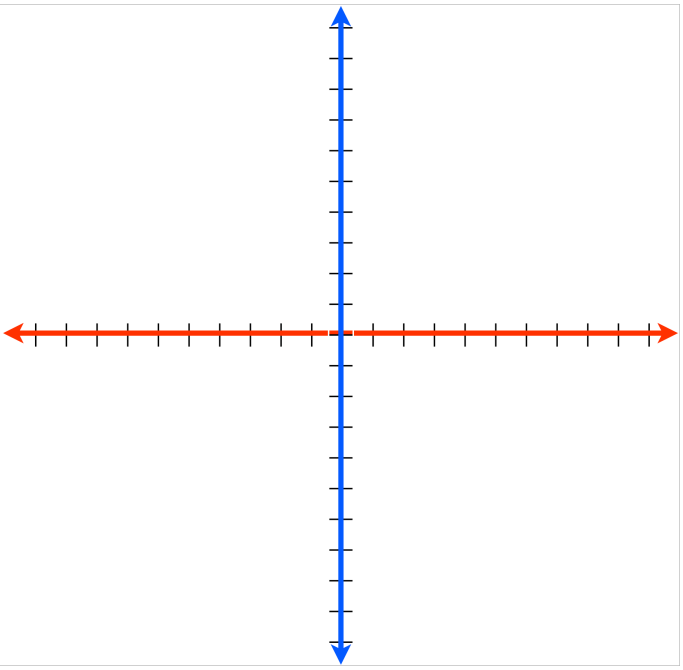
$y = \sqrt{-x + 6} + 1$



Square Function

$y = x^2$

$y = (-x - 4)^2 + 1$



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