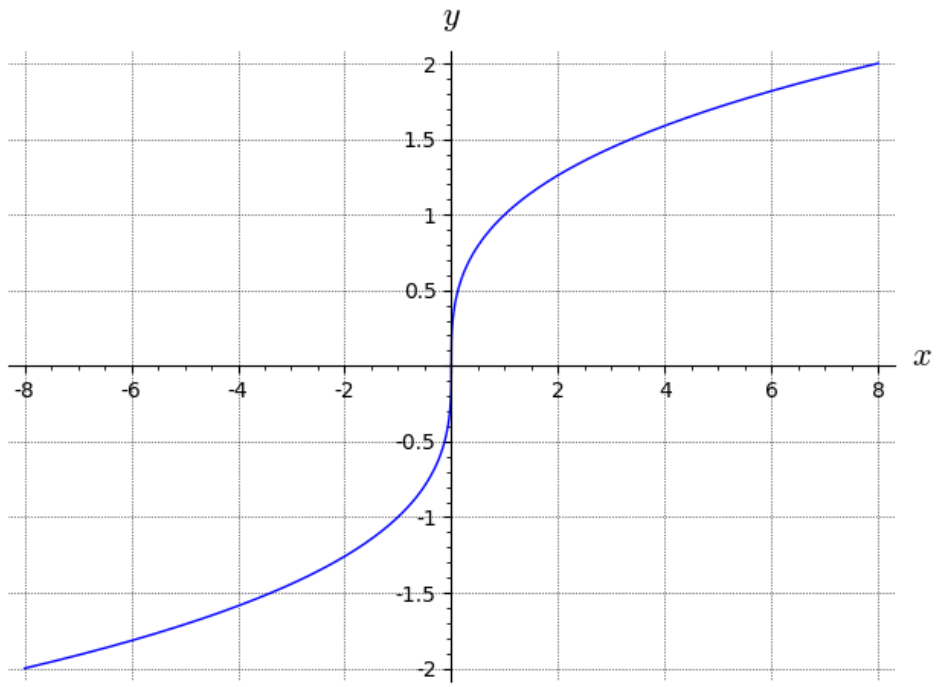
Cube Root Function

The cube root function has the form $f(x) = \sqrt[3]{x}$.



Properties of the cube root function $f(x) = \sqrt[3]{x}$:

- Domain: All real numbers, $(-\infty, \infty)$
- Range: All real numbers, $(-\infty, \infty)$
- Symmetry: f is an odd function. Its graph is symmetric about the origin.
- Increasing/Decreasing: f is increasing on $(-\infty, \infty)$.
- Extreme values: None.
- Interesting features:
  - The graph $y = \sqrt[3]{x}$ is the reflection of the graph of $y = x^3$ about the line $y = x$.