

Vocabulary: Radical Functions



Vocabulary

- **Cube root** – a number that, when cubed, yields the original number.
 - The symbol for cube root is $\sqrt[3]{}$.
 - For example, the cube root of 64 is 4, or, symbolically, $\sqrt[3]{64} = 4$.
- **Domain** – the set of all x -values of a relation or function.
- **Endpoint** – the point at which a graph, segment, or ray starts or ends.
 - The endpoint of the square root function graphed to the right is at $(0, 0)$.
- **Inflection point** – a point at which a curve changes from concave up to concave down, or vice versa.
 - The inflection point of the cube root function graphed to the right is at $(1, 2)$.
- **Radical function** – a function that contains a radical expression.
 - Square root and cube root functions are two types of radical functions.
 - A general form of a square root function is $y = a\sqrt{x-h} + k$, where $a \neq 0$.
 - A general form of a cube root function is $y = a\sqrt[3]{x-h} + k$, where $a \neq 0$.
- **Range** – the set of all y -values of a relation or function.
- **Square root** – a number that, when squared, yields the original number.
 - The symbol for square root is $\sqrt{}$.
 - For example, the square root of 36 is 6, or, symbolically, $\sqrt{36} = 6$.

