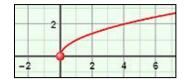
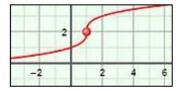
## **Vocabulary: Radical Functions**

## 🚺 Vocabulary

- <u>Cube root</u> 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,  $\sqrt[3]{64} = 4$ .
- <u>Domain</u> the set of all *x*-values of a relation or function.
- <u>Endpoint</u> 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).
- <u>Inflection point</u> 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).





- <u>Radical function</u> a function that contains a radical expression.
  - o 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  $a \neq 0$ .
- <u>Range</u> the set of all *y*-values of a relation or function.
- <u>Square root</u> 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,  $\sqrt{36} = 6$ .

