Evaluating Basic Functions - $f(x) = \sqrt[3]{x}$

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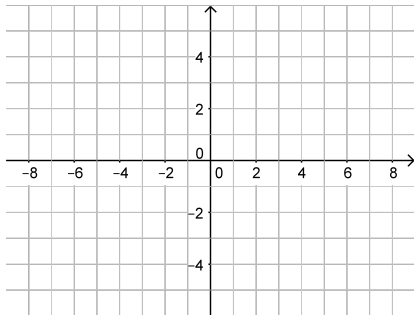# Evaluating Basic Functions - $f(x) = \sqrt[3]{x}$

We will continue exploring more interesting functions.

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We will continue exploring more interesting functions. Now we will graph:
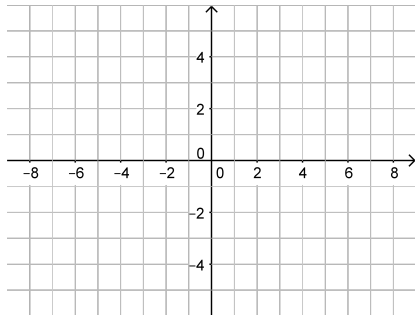$$f(x) = \sqrt[3]{x}$$

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Now we will graph:
$$f(x) = \sqrt[3]{x}$$
To see the whole graph, let's start with some points.

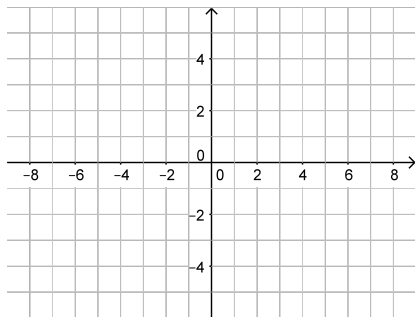# Evaluating Basic Functions - $f(x) = \sqrt[3]{x}$

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Now we will graph:

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

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We can find points by picking $x-$values, and finding $f(x)$

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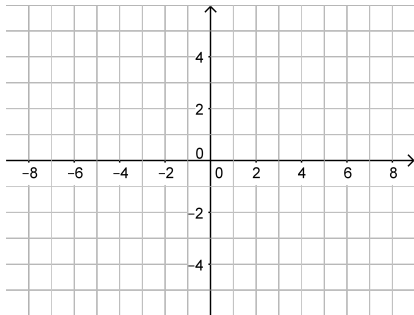
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If $x = 8$

Evaluating Basic Functions - $f(x) = \sqrt[3]{x}$
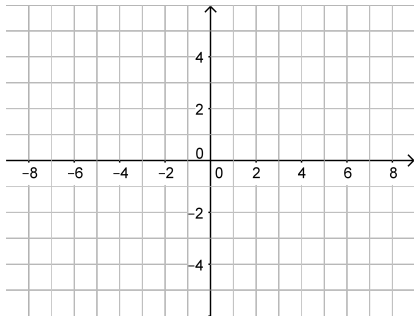
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If $x = 8 \rightarrow f(8) = \sqrt[3]{8}$

Evaluating Basic Functions - $f(x) = \sqrt[3]{x}$

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If $x = 8 \rightarrow f(8) = \sqrt[3]{8} = 2$

Evaluating Basic Functions - $f(x) = \sqrt[3]{x}$

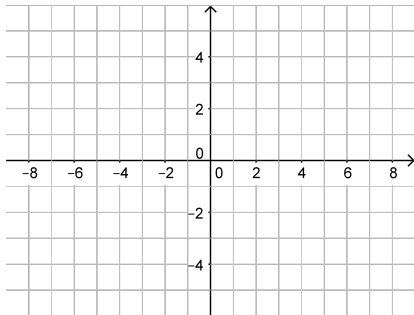We will continue exploring more interesting functions.
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If $x = 8 \rightarrow f(8) = \sqrt[3]{8} = 2$, so $(8, 2)$ is a point

Evaluating Basic Functions - $f(x) = \sqrt[3]{x}$

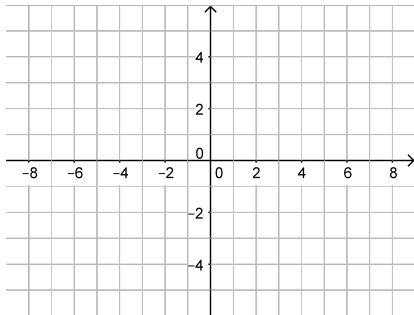We will continue exploring more interesting functions.
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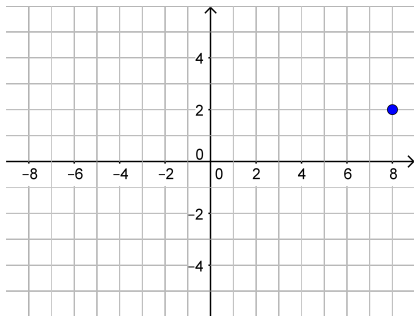We will continue exploring more interesting functions.
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If $x = 1$

Evaluating Basic Functions - $f(x) = \sqrt[3]{x}$

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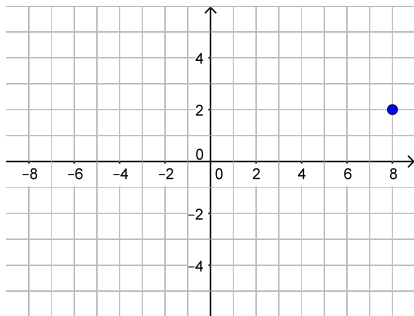Now we will graph:
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If $x = 1 \rightarrow f(1) = \sqrt[3]{1}$

Evaluating Basic Functions - $f(x) = \sqrt[3]{x}$

We will continue exploring more interesting functions.
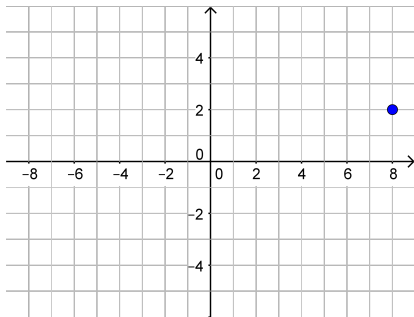Now we will graph:
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If $x = 1 \rightarrow f(1) = \sqrt[3]{1} = 1$

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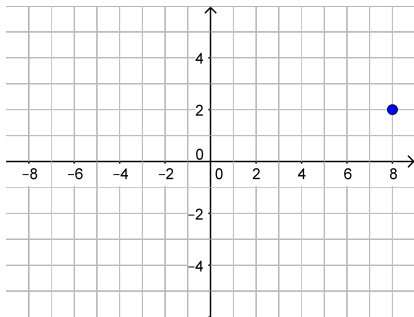Now we will graph:
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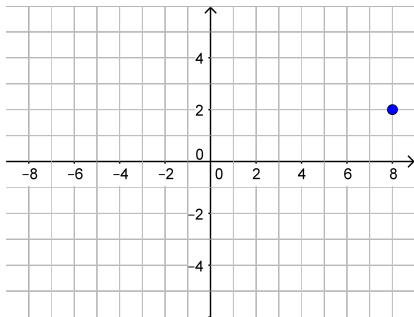Now we will graph:
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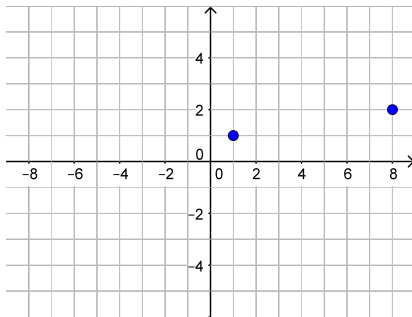Now we will graph:
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If $x = -1$

Evaluating Basic Functions - $f(x) = \sqrt[3]{x}$

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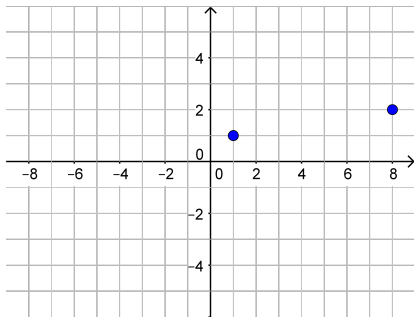Now we will graph:
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If $x = -1 \rightarrow f(-1) = \sqrt[3]{-1}$

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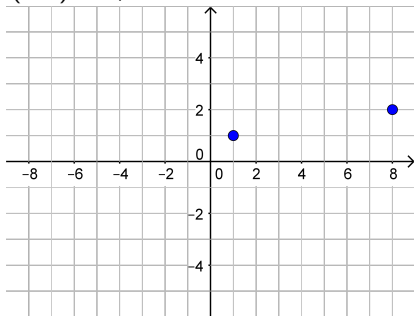Now we will graph:
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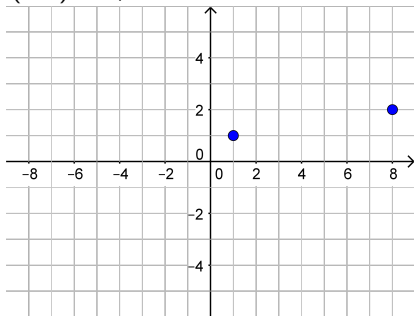Now we will graph:
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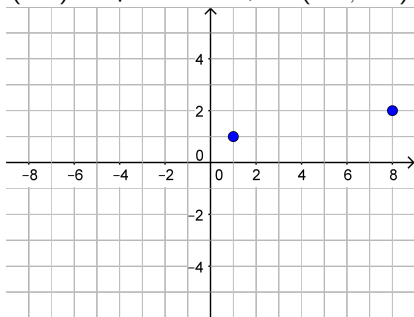Now we will graph:
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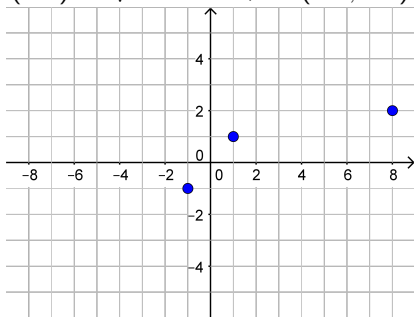Now we will graph:
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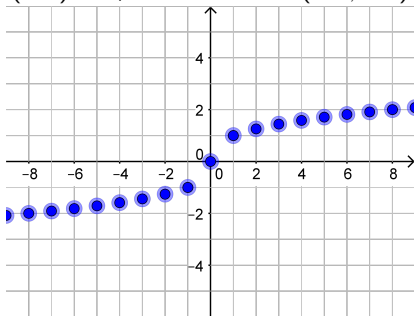Now we will graph:
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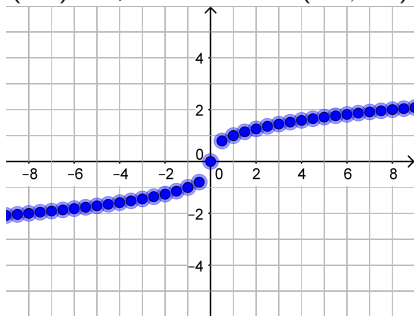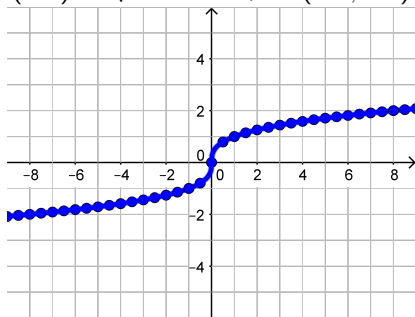Now we will graph:
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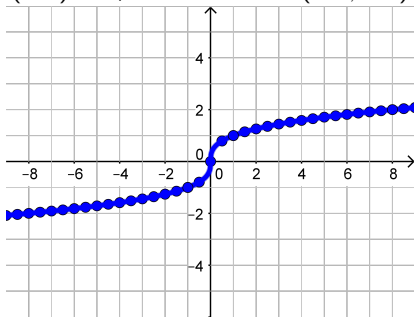Now we will graph:
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Note: This graph rotationally symmetric like $f(x) = x^3$