

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

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We will continue exploring more interesting functions.

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Now we will graph:

$$f(x) = \sqrt{x}$$

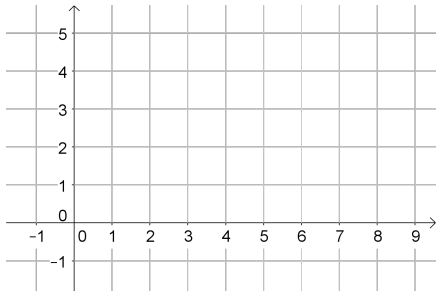
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To see the whole graph, let's start with some points.



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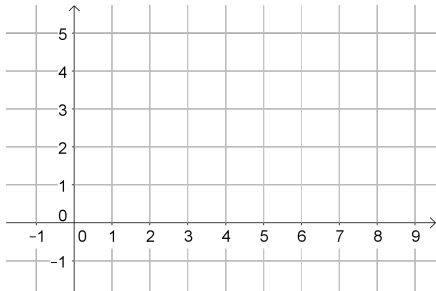
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Because of the square root, we can only look at $x \geq 0$



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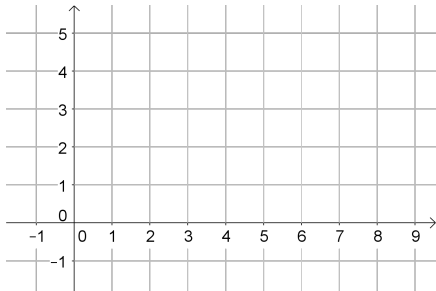
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We can find points by picking x -values, and finding $f(x)$



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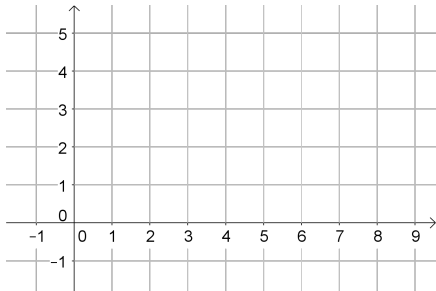
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If $x = 4$



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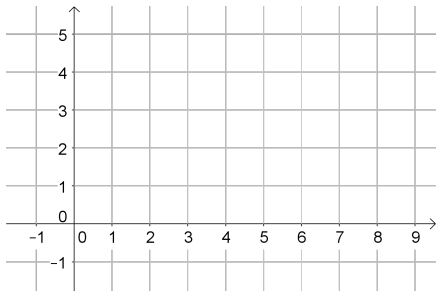
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$$\text{If } x = 4 \rightarrow f(4) = \sqrt{4}$$



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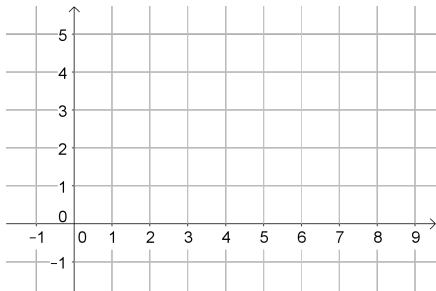
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$$\text{If } x = 4 \rightarrow f(4) = \sqrt{4} = 2$$



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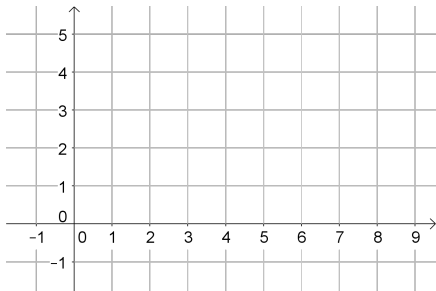
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If $x = 4 \rightarrow f(4) = \sqrt{4} = 2$, so $(4, 2)$ is a point



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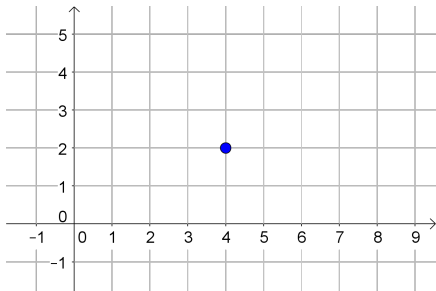
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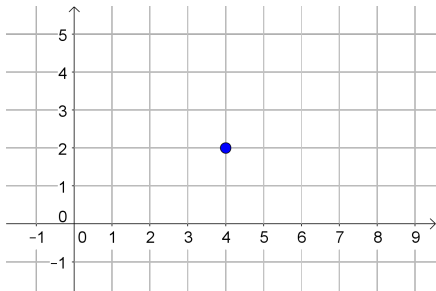
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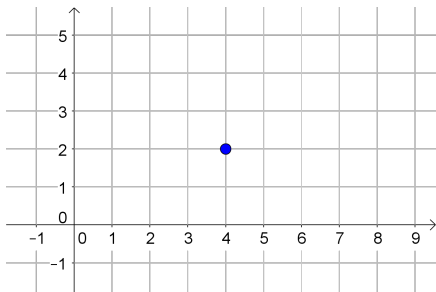
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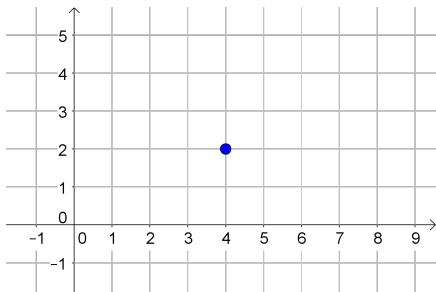
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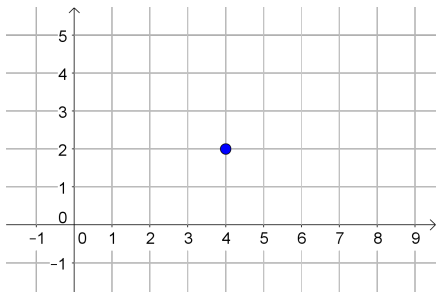
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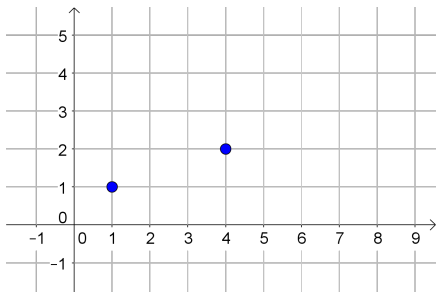
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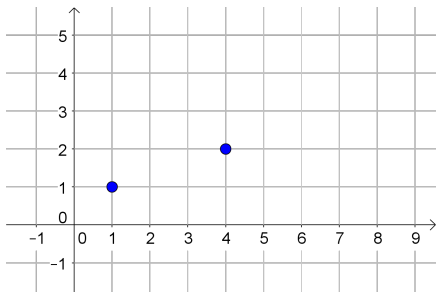
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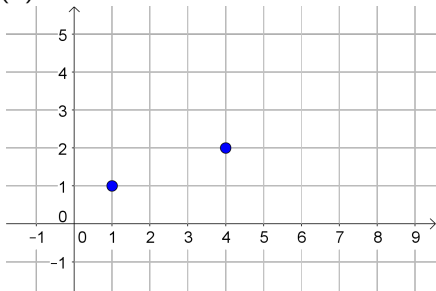
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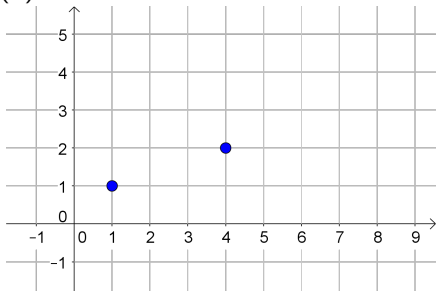
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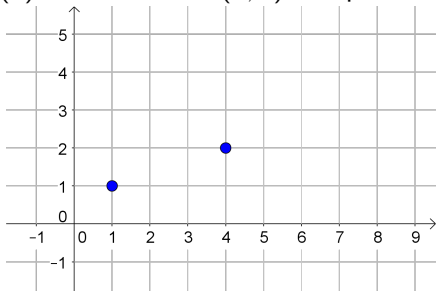
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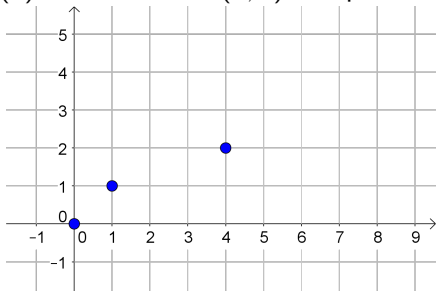
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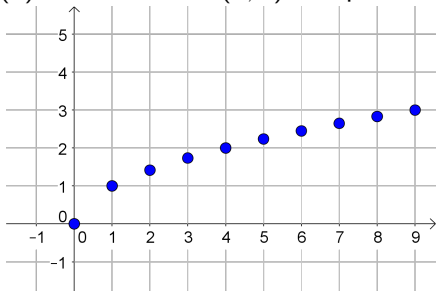
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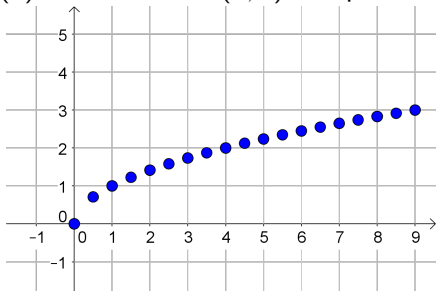
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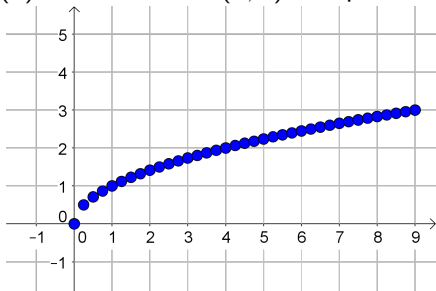
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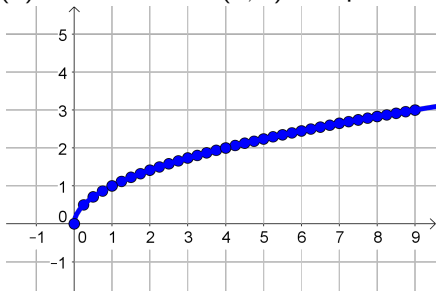
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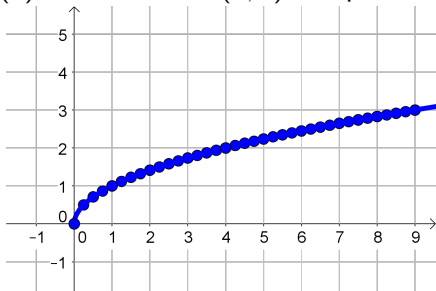
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Note: This graph has no symmetry like our previous graphs