

Graphing Radicals

Identify the domain and range of each.

1) $y = \sqrt{x-2} + 5$

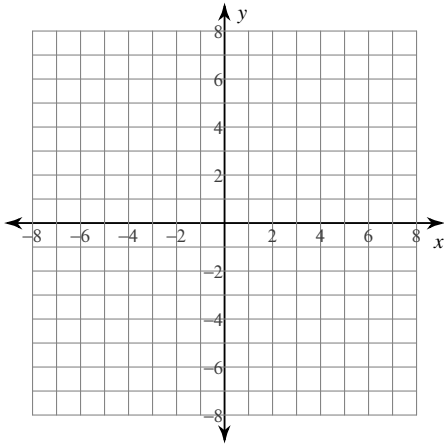
2) $y = \sqrt{x+2} - 3$

3) $y = \sqrt[3]{x+1} - 4$

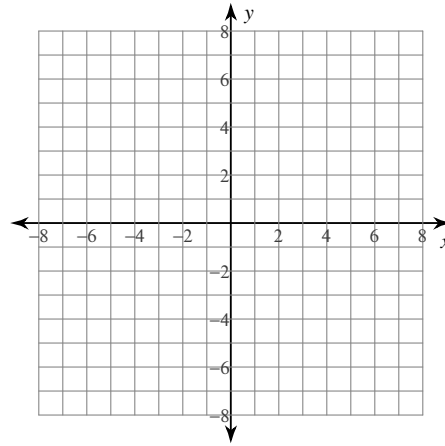
4) $y = \sqrt[3]{x-1} - 1$

Sketch the graph of each function.

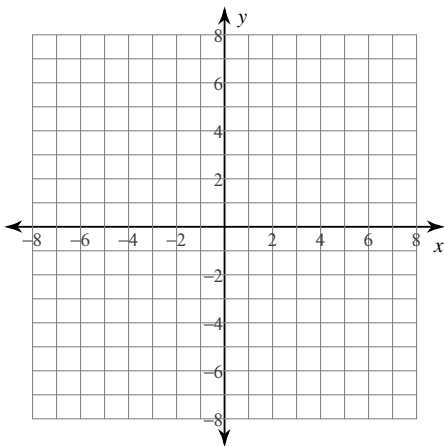
5) $y = \sqrt{x} + 5$



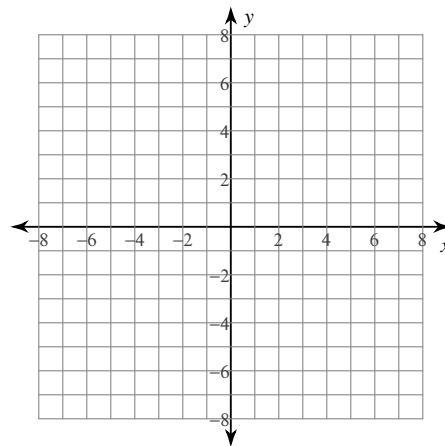
6) $y = \sqrt{x} - 2$



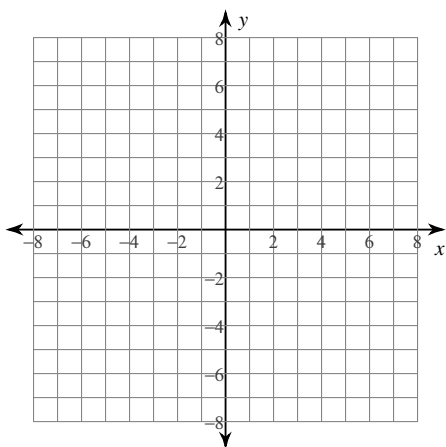
7) $y = 3 + \sqrt{x}$



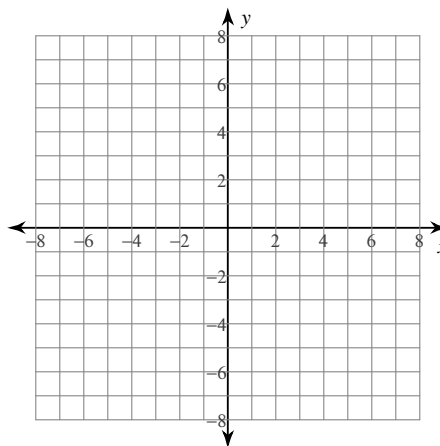
8) $y = \sqrt{x} + 4$



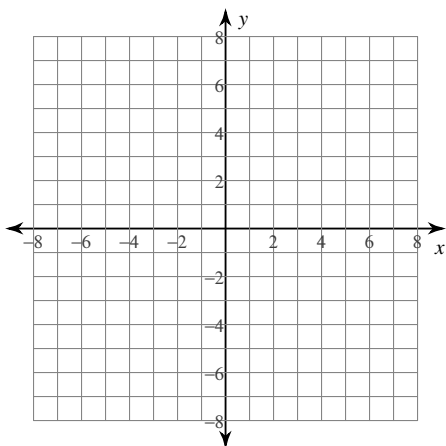
9) $y = \sqrt[3]{x+4} + 1$



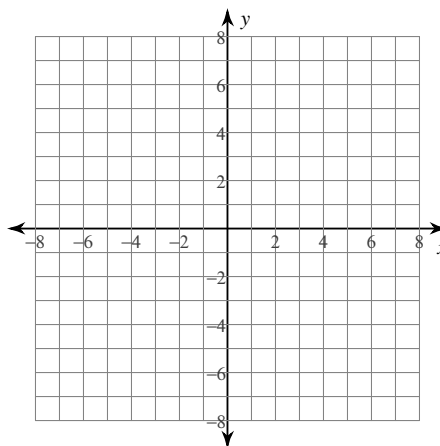
10) $y = \frac{1}{2}\sqrt[3]{x+1} + 4$



11) $y = \sqrt{x-4} - 2$

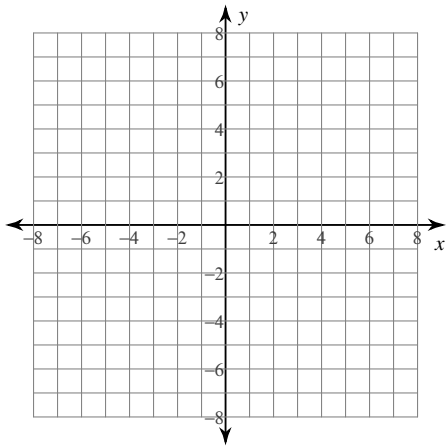


12) $y = -2 + \sqrt[3]{x}$

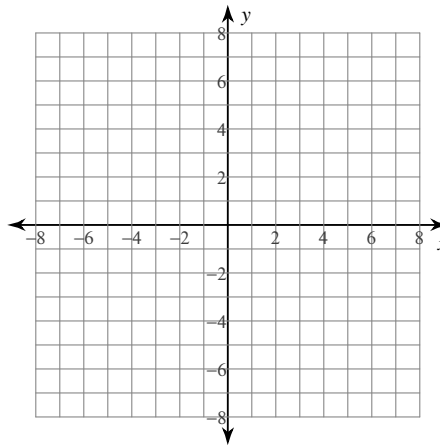


Identify the domain and range of each. Then sketch the graph.

13) $y = 4\sqrt{x-2} - 1$



14) $y = 3\sqrt[3]{x-4} - 1$



Graphing Radicals

Identify the domain and range of each.

1) $y = \sqrt{x-2} + 5$

Domain: $x \geq 2$ Range: $y \geq 5$

2) $y = \sqrt{x+2} - 3$

Domain: $x \geq -2$ Range: $y \geq -3$

3) $y = \sqrt[3]{x+1} - 4$

Domain: { All real numbers. }

Range: { All real numbers. }

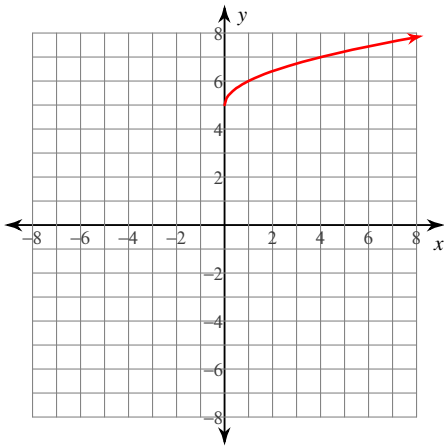
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Domain: { All real numbers. }

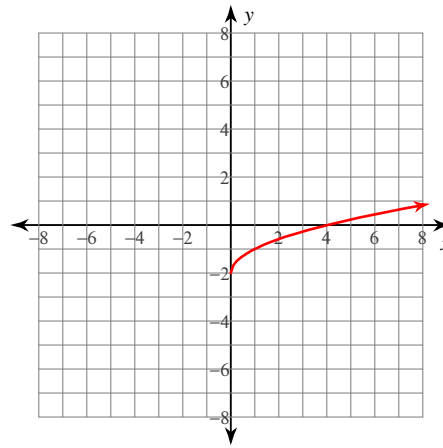
Range: { All real numbers. }

Sketch the graph of each function.

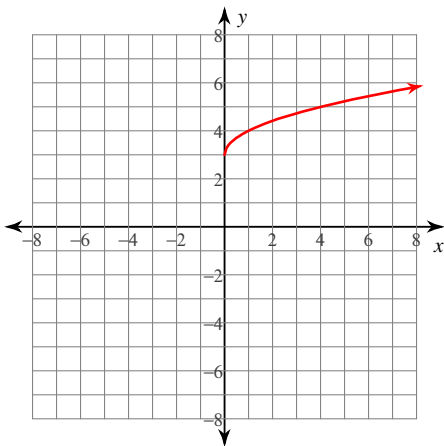
5) $y = \sqrt{x} + 5$



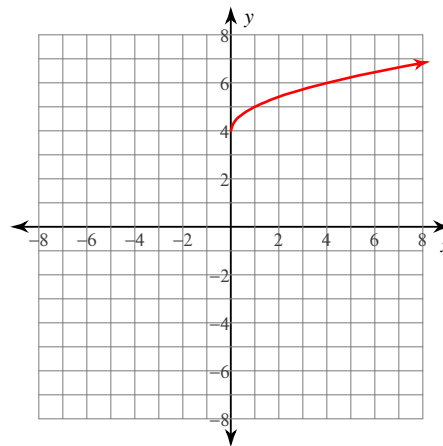
6) $y = \sqrt{x} - 2$



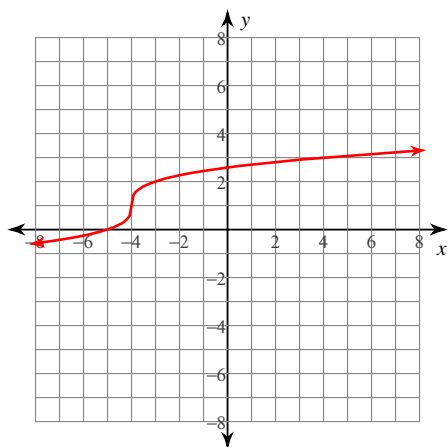
7) $y = 3 + \sqrt{x}$



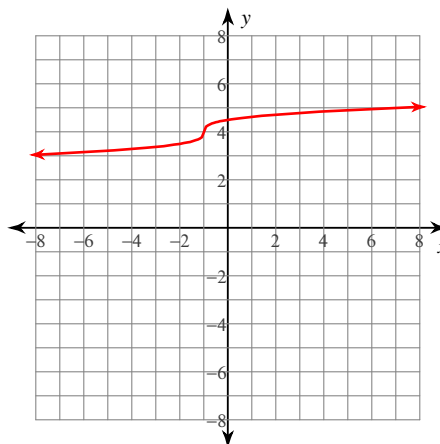
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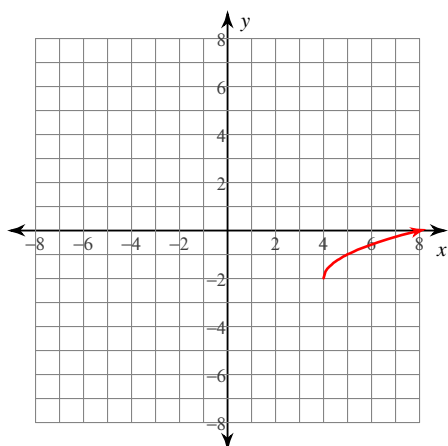
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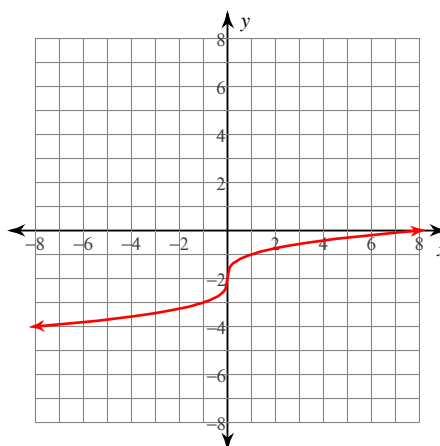
10) $y = \frac{1}{2}\sqrt[3]{x+1} + 4$



11) $y = \sqrt{x-4} - 2$

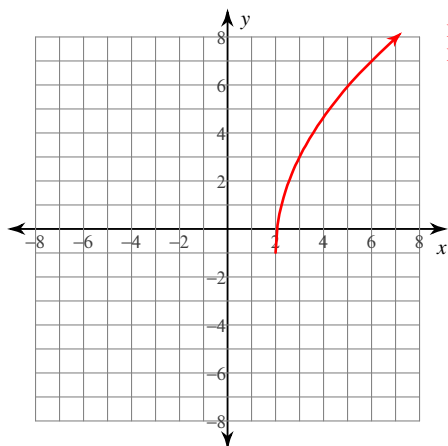


12) $y = -2 + \sqrt[3]{x}$



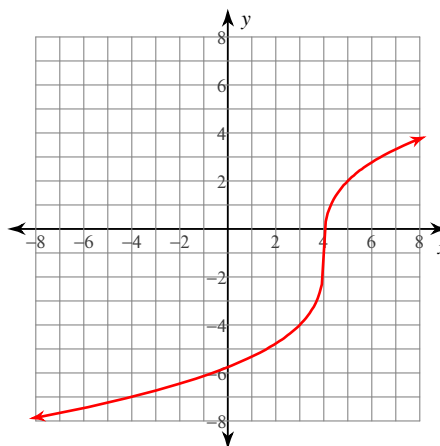
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13) $y = 4\sqrt{x-2} - 1$



Domain: $x \geq 2$
Range: $y \geq -1$

14) $y = 3\sqrt[3]{x-4} - 1$



Domain: { All real numbers. }
Range: { All real numbers. }