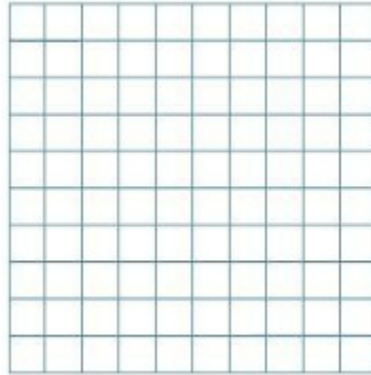


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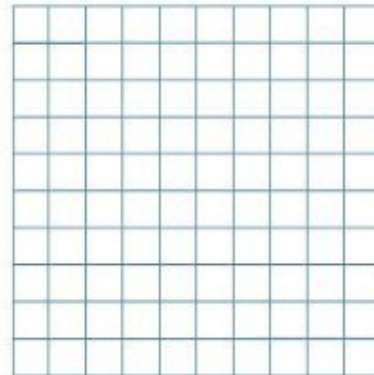
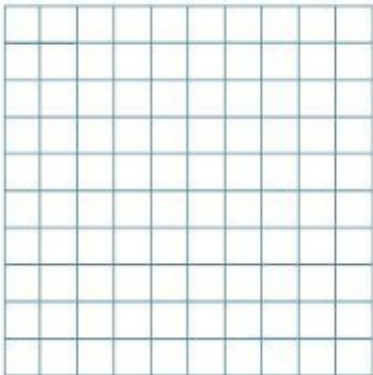
Graph $y = \sqrt{x}$. State the domain and range.



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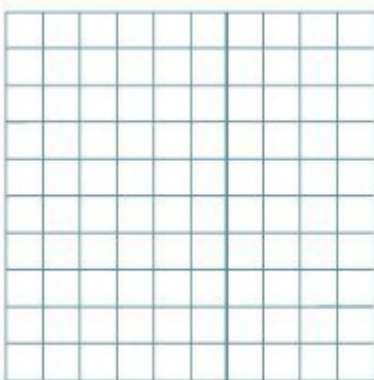
Problem 1 Translating a Square Root Function Vertically

Got It? What are the graphs of $y = \sqrt{x} + 2$ and $y = \sqrt{x} - 3$? State the domain and range.

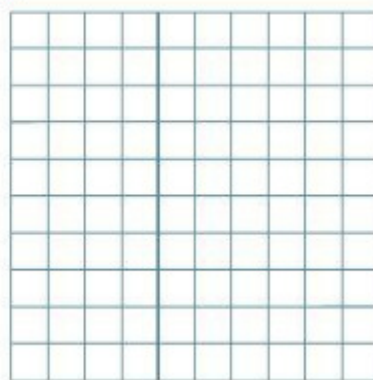


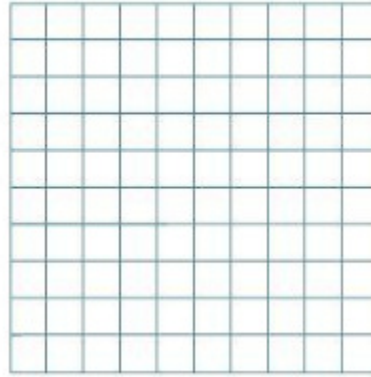
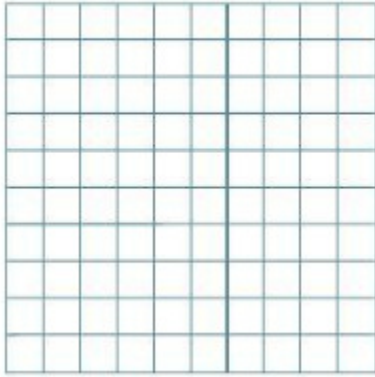
A Practice Graph each function. State the domain and range.

1. $y = \sqrt{x} - 4$

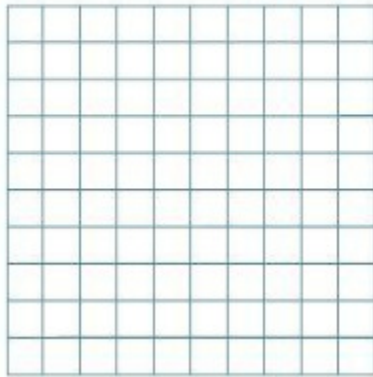


2. $y = \sqrt{x} + 5$

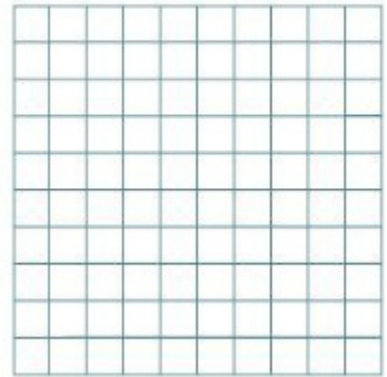
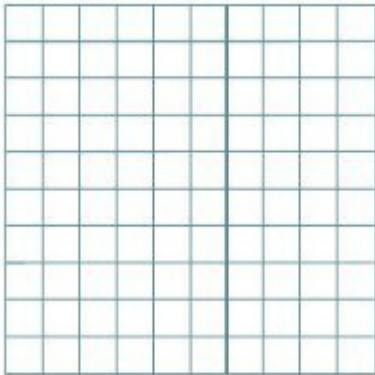


Problem 2 Translating a Square Root Function Horizontally**Got It?** What are the graphs of $y = \sqrt{x - 3}$ and $y = \sqrt{x + 2}$? State the domain and range.**A Practice** Graph each function. State the domain and range.

3. $y = \sqrt{x + 6}$

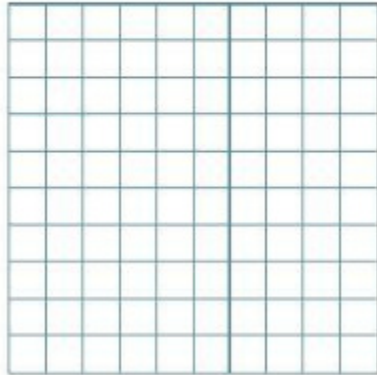


4. $y = \sqrt{x - 4}$

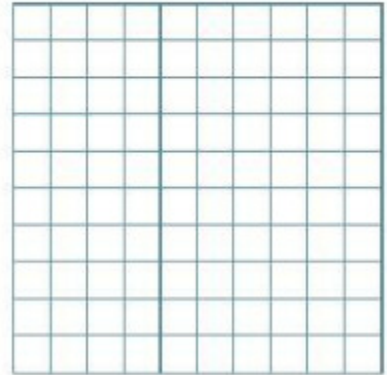
**Problem 3** Graphing a Square Root Function**Got It?** What is the graph of $y = 3\sqrt{x + 2} - 4$? State the domain and range.

A Practice Graph each function. State the domain and range.

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

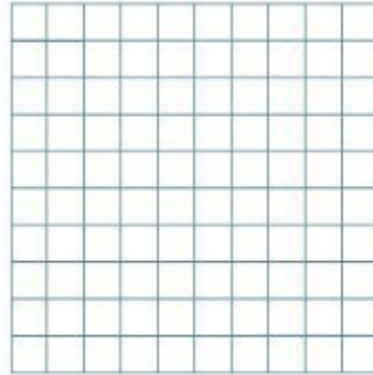


6. $y = 3\sqrt{x+1} + 4$

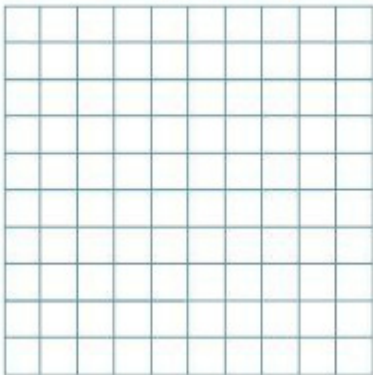


Problem 5 Graphing a Cube Root Function

Graph $y = \sqrt[3]{x}$. State the domain and range.

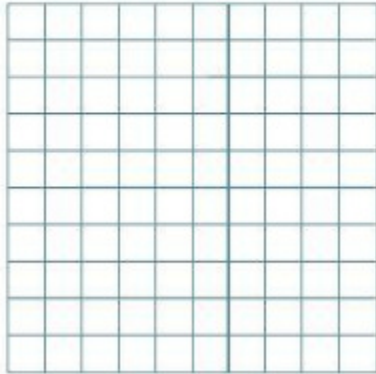


Got It? What is the graph of $y = 3 - \frac{1}{2}\sqrt[3]{x-2}$? State the domain and range.



A Practice Graph each function. State the domain and range.

9. $y = -\sqrt[3]{x+3} - 1$



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

