Graph each function, and identify its domain and range, as well as the transformations.
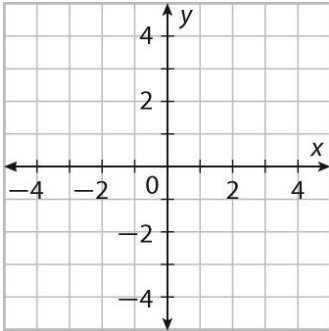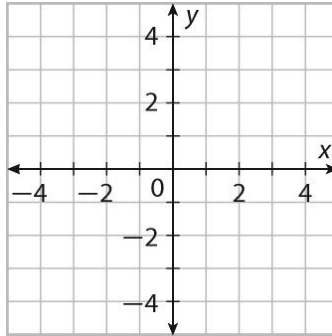
1. $g(x) = \frac{1}{2}\sqrt{-x} - 3$

2. $g(x) = -4\sqrt{x+2} + 6$

Domain: _____

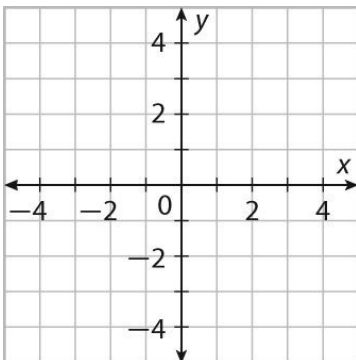Domain: _____

Range: _____

Range: _____

Use the description to write the square root function _g_.

3. The parent function $f(x) = \sqrt{x}$ is reflected across the _y_-axis, vertically stretched by a factor of 7, and

   Translated 3 units down.   _____

4. The parent function $f(x) = \sqrt{x}$ is translated 2 units right, compressed horizontally by a factor of $\frac{1}{2}$, and

   reflected across the _x_-axis.   _____

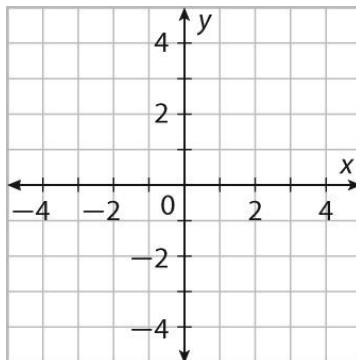**Graph each function, and identify its domain and range, as well as the transformations.**

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