Name:

Date:

Domain and Range of Radical Functions

Identify the domain and range of each.

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

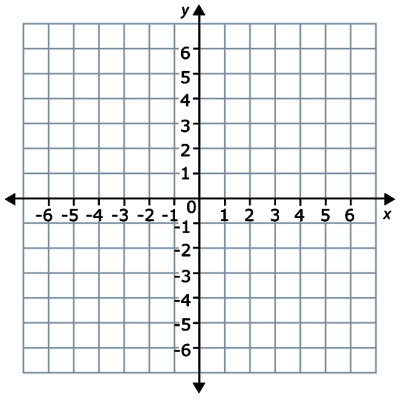
2) $y = \sqrt{x - 2} + 5$

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

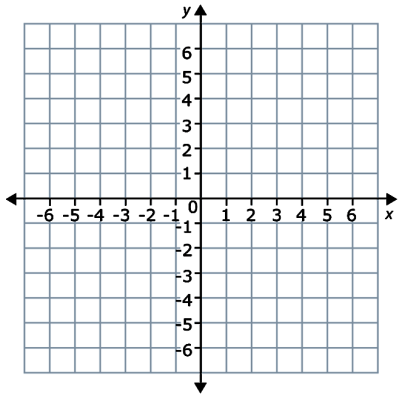
4) $y = \sqrt[3]{x + 1} - 4$

Sketch the graph of each function.

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



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



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

domain: $x \geq -2$
range: $y \geq -3$

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

domain: $x \geq 2$
range: $y \geq 5$

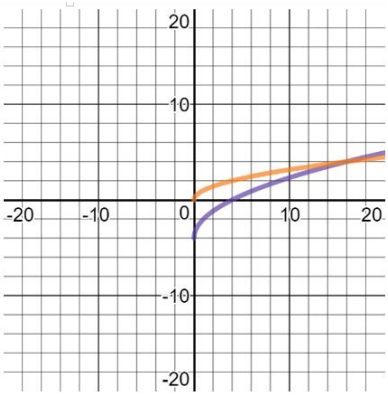
3) $y = \sqrt[3]{x - 1} - 1$

domain: {all real numbers}
range: {all lreal numbers}

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

domain: {all real numbers}
range: {all real numbers}

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



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

