

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Domain and Range of Radical Functions****Identify the domain and range of each.**

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

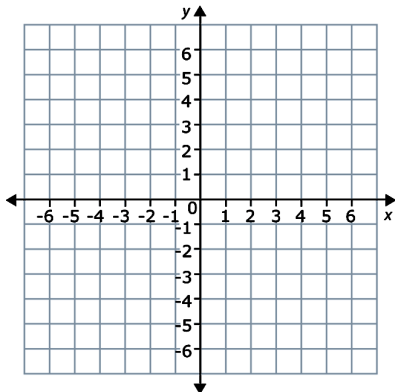
2)  $y = \sqrt{x - 2} + 5$

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

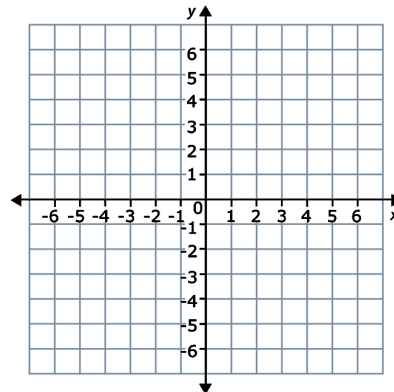
4)  $y = \sqrt{x + 1} - 4$

**Sketch the graph of each function.**

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



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





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:**  $y \geq 5$

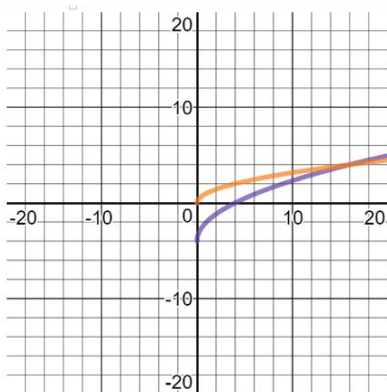
3)  $y = \sqrt[3]{x - 1} - 1$

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

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

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

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



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

