

## Graphing Radicals

Identify the domain and range of each.

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

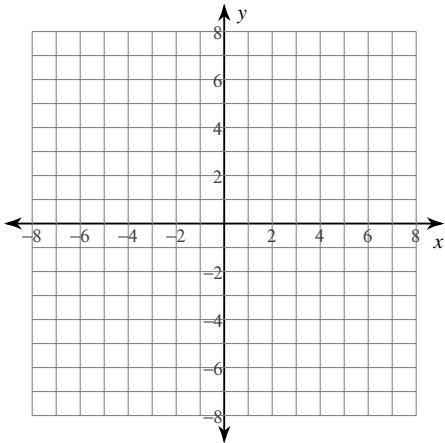
2)  $y = \sqrt{x+2} - 3$

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

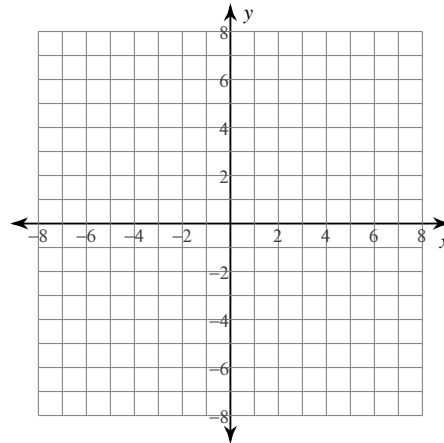
4)  $y = \sqrt[3]{x-1} - 1$

Sketch the graph of each function.

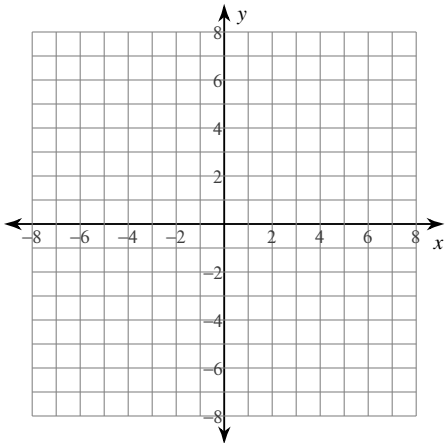
5)  $y = \sqrt{x} + 5$



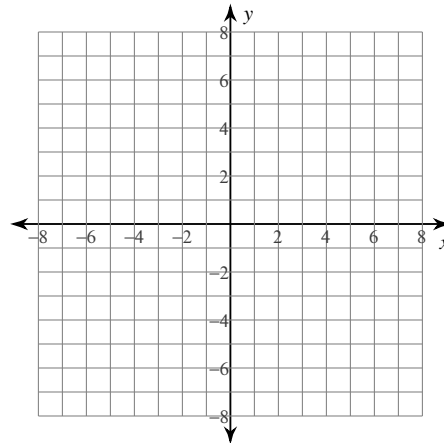
6)  $y = \sqrt{x} - 2$



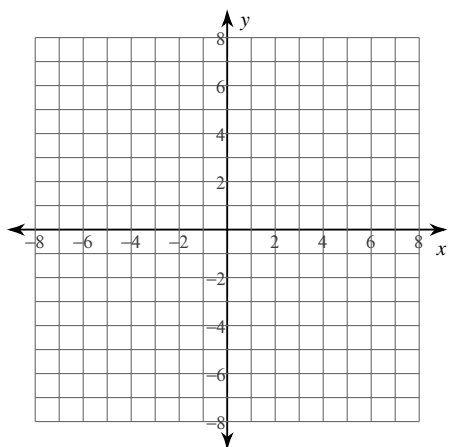
7)  $y = 3 + \sqrt{x}$



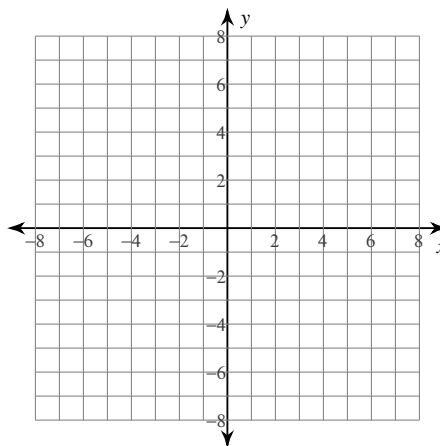
8)  $y = \sqrt{x} + 4$



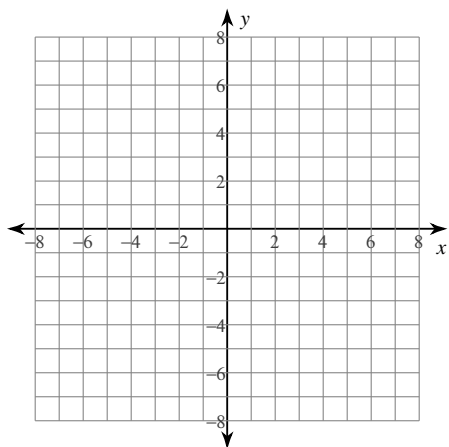
9)  $y = -2\sqrt{x+2}$



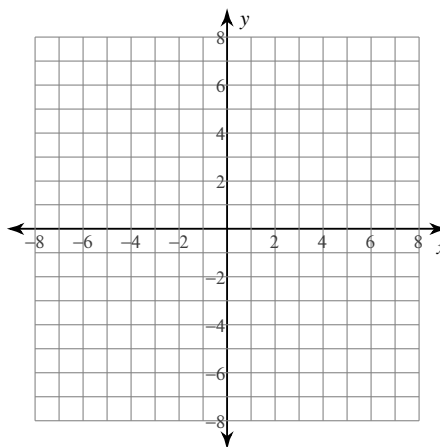
10)  $y = \frac{1}{2}\sqrt[3]{x+1} + 4$



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

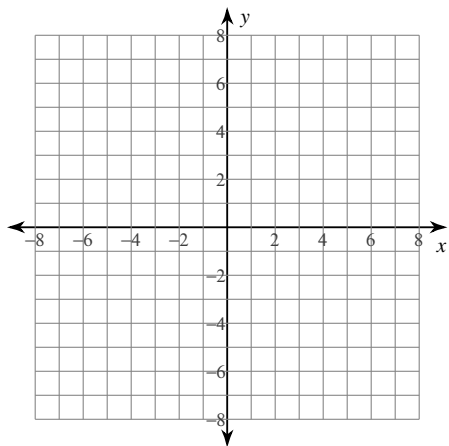


12)  $y = -2 + \sqrt[3]{x}$



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

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



14)  $y = -\frac{3}{4}\sqrt{x-1} + 4$

