

## Graphing Radicals

Identify the domain and range of each.

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

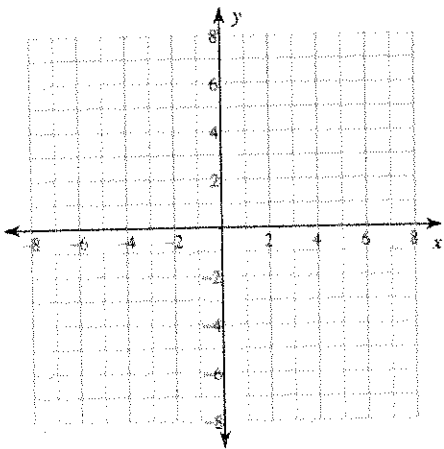
2)  $y = \sqrt{x+2} - 3$

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

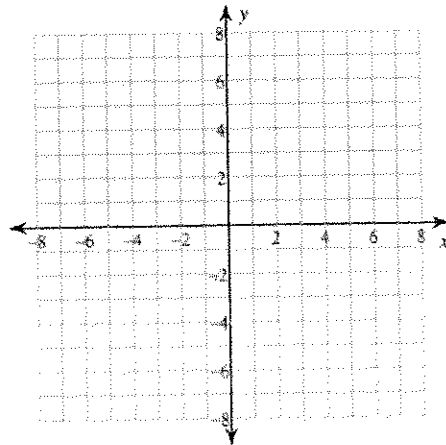
4)  $y = \sqrt[3]{x-1} - 1$

Sketch the graph of each function.

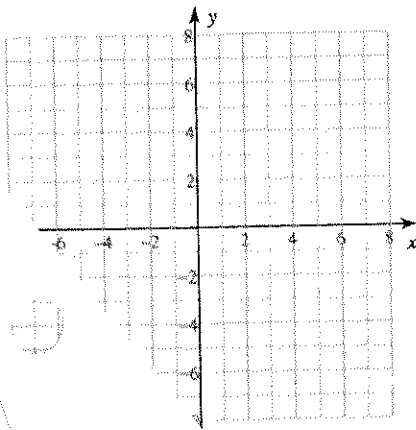
5)  $y = \sqrt{x} + 5$



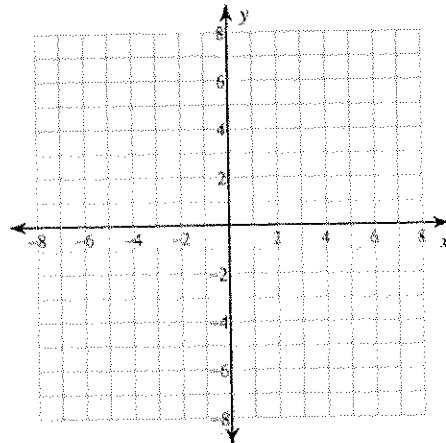
6)  $y = \sqrt{x} - 2$



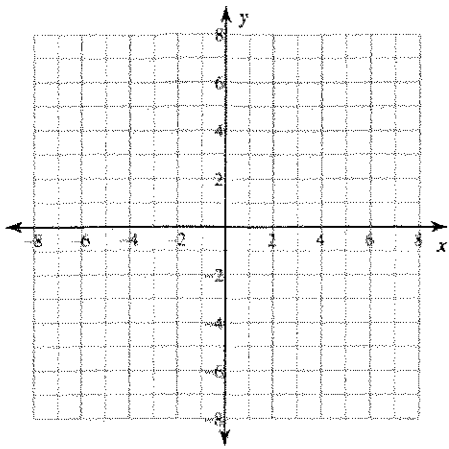
7)  $y = 3 + \sqrt{x}$



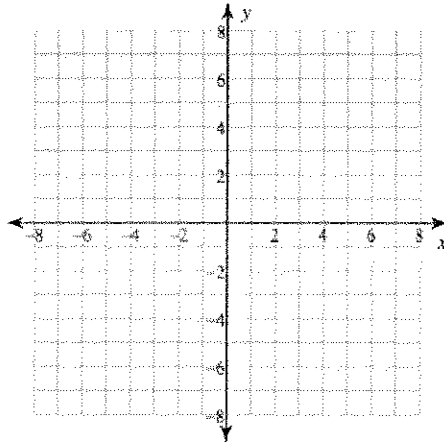
8)  $y = \sqrt{x} + 4$



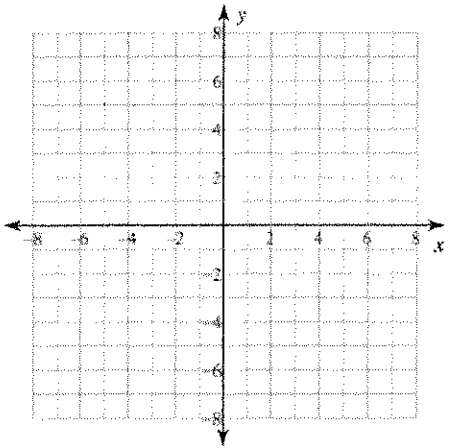
$$9) y = -2\sqrt{x+2}$$



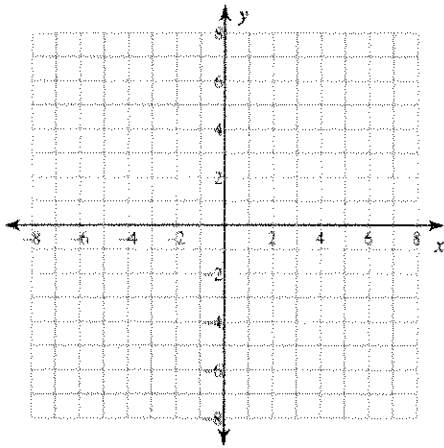
$$10) y = \frac{1}{2}\sqrt[3]{x+1} + 4$$



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

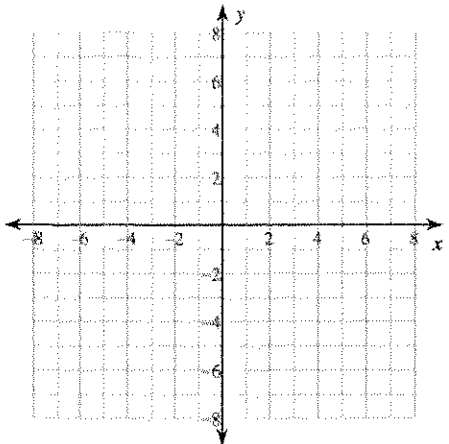


$$12) y = -2 + \sqrt[3]{x}$$



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

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



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

