

HW 8-6 Graphing Radicals

Name Selected Answers
Date _____

Identify the domain and range of each.

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

$x - 2 \geq 0$ $R: [5, \infty)$
 $x \geq 2$

$D: [2, \infty)$

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

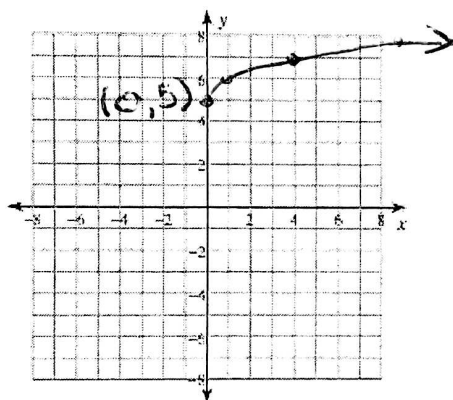
2) $y = \sqrt{x+2} - 3$

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

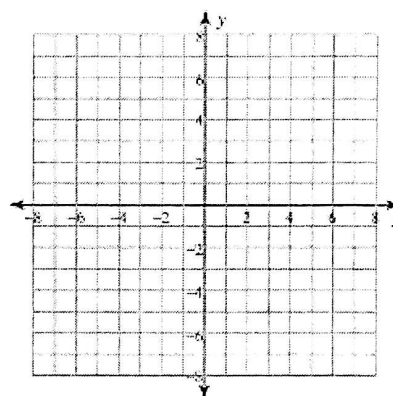
$D: [1, \infty)$ $R: [-1, \infty)$

Sketch the graph of each function.

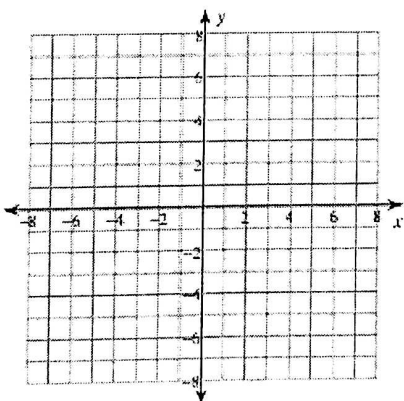
5) $y = \sqrt{x} + 5$



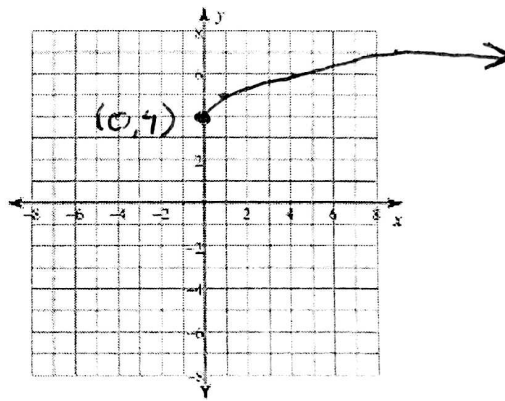
6) $y = \sqrt{x} - 2$



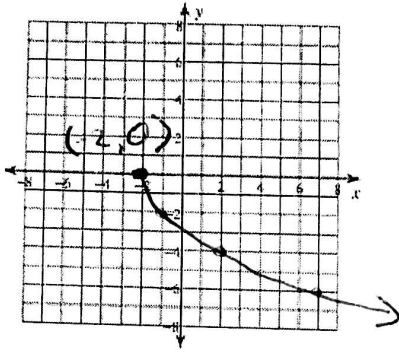
7) $y = 3 + \sqrt{x}$



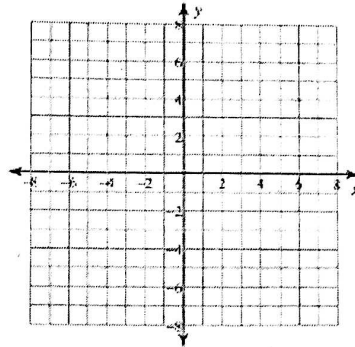
8) $y = \sqrt{x} + 4$



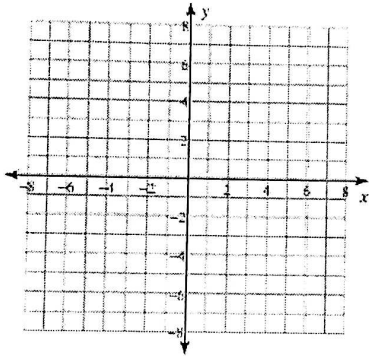
$$9) y = -2\sqrt{x+2}$$



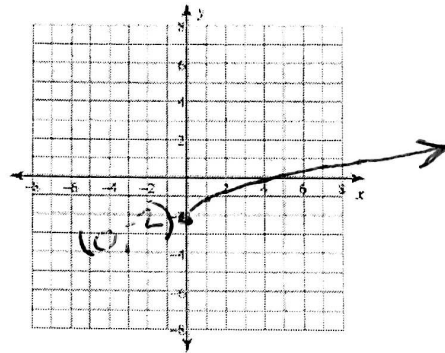
$$10) y = \frac{1}{2}\sqrt{x+1} + 4$$



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



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

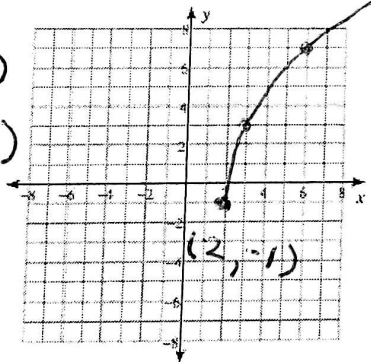


Identify the domain and range of each. Then sketch the graph.

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

$$D: [2, \infty)$$

$$R: [-1, \infty)$$



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

