

Name:

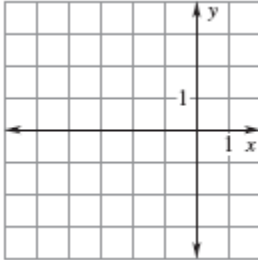
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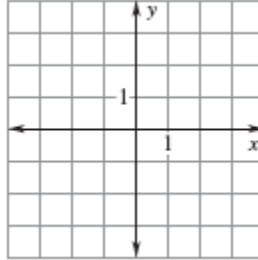
Practice Worksheet: Graphing Radical Functions

Graph the function. Then state the domain and range.

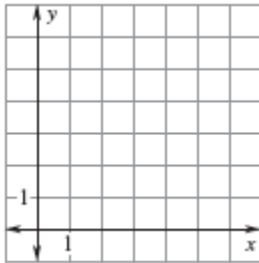
1. $f(x) = \sqrt{x+4} - 2$



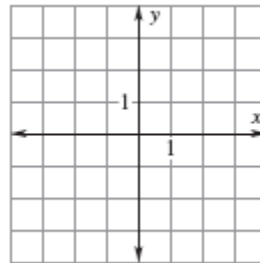
2. $f(x) = -\sqrt{x} + 3$



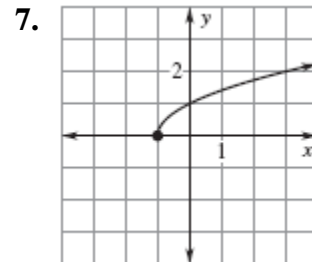
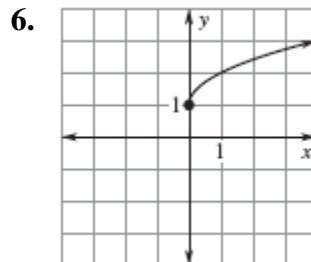
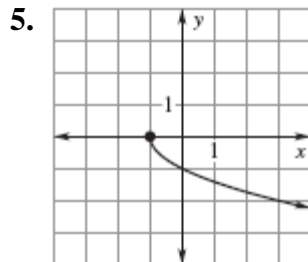
3. $f(x) = (x-2)^{1/2} + 3$



4. $f(x) = -\sqrt{x+2} + 2$



Write an equation for each graph. Then state the domain and range.



Describe the transformations in the graph of each equation. Then state the domain and range.

8. $f(x) = -\sqrt{x+4} - 1$

12. $f(x) = 4 + (-x)^{1/2}$

9. $f(x) = (x-3)^{1/2} + 2$

13. $f(x) = 5 - (x+4)^{1/2}$

10. $f(x) = 2 - \sqrt{x+1}$

14. $f(x) = \sqrt{-(x+3)} + 2$

11. $f(x) = \sqrt{-x} + 3$

15. $f(x) = \sqrt{-x+3} - 5$