

Pg. 418 #8-30 even



Pg 418 #8-30 even

ice Graph each function.

7. $y = \sqrt{x} + 1$ 8. $y = \sqrt{x} - 2$ 9. $y = \sqrt{x} - 4$ 10. $y = \sqrt{x} + 5$
11. $y = \sqrt{x-3}$ 12. $y = \sqrt{x+1}$ 13. $y = \sqrt{x+6}$ 14. $y = \sqrt{x-4}$

Graph each function.


15. $y = 3\sqrt{x}$ 16. $y = -\sqrt{x-1}$ 17. $y = -5\sqrt{x+2}$
18. $y = -0.5\sqrt{x} + 3$ 19. $y = \frac{1}{2}\sqrt{x+2} - 1$ 20. $y = 3\sqrt{x+1} + 4$

 Solve each square root equation by graphing. Round the answer to the nearest hundredth, if necessary. If there is no solution, explain why.  See Problem 4.

21. $\sqrt{x-3} = 12$ 22. $\sqrt{2x-3} = 4$ 23. $\sqrt{2x+5} = \sqrt{2-x}$

24. Landscaping A sprinkler can water between 1 and 130 square yards of a lawn. The length L in inches of rotating pipe needed to water A square yards is given by the function $L = 117.75\sqrt{A}$.

a. Graph the equation on your calculator. Make a sketch of the graph.
b. How much area can be watered if the length of the pipe is 500, 800, or 1300 inches long?

Graph each function.  See Problem 5.

25. $y = \sqrt[3]{x+5}$ 26. $y = \sqrt[3]{x} - 4$ 27. $y = \sqrt[3]{x+2} - 7$
28. $y = -\sqrt[3]{x+3} - 1$ 29. $y = 2\sqrt[3]{x-6} - 9$ 30. $y = \frac{1}{2}\sqrt[3]{x-1} + 3$