1.6 Exercises

See CalcChat.com for tutorial help and worked-out solutions to odd-numbered exercises. For instructions on how to use a graphing utility, see Appendix A.

Vocabulary and Concept Check

In Exercises 1–4, fill in the blank(s).

1. If f and g are functions such that $f(g(x)) = x$ and $g(f(x)) = x$, then the function g is the _____ function of f, and is denoted by _____.
2. The domain of f is the _____ of f^{-1}, and the _____ of f^{-1} is the range of f.
3. The graphs of f and f^{-1} are reflections of each other in the line _____.
4. To have an inverse function, a function f must be _____; that is, $f(a) = f(b)$ implies $a = b$.
5. How many times can a horizontal line intersect the graph of a function that is one-to-one?
6. Can (1, 4) and (2, 4) be two ordered pairs of a one-to-one function?

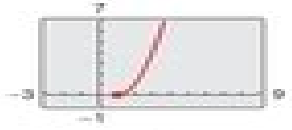
Procedures and Problem Solving

Finding Inverse Functions Informally **In Exercises 7–14, find the inverse function of f informally. Verify that $f(f^{-1}(x)) = x$ and $f^{-1}(f(x)) = x$.**

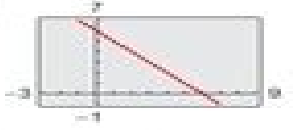
7. $f(x) = 6x$
8. $f(x) = \frac{1}{2}x$
9. $f(x) = x + 11$
10. $f(x) = x + 3$
11. $f(x) = (x - 1)/2$
12. $f(x) = 4(x - 1)$
13. $f(x) = \sqrt[3]{x}$
14. $f(x) = x^5$

Identifying Graphs of Inverse Functions **In Exercises 15–18, match the graph of the function with the graph of its inverse function. [The graphs of the inverse functions are labeled (a), (b), (c), and (d).]**

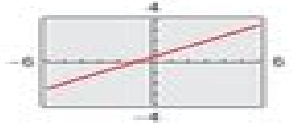
(a)



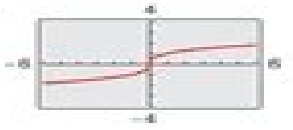
(b)



(c)



(d)



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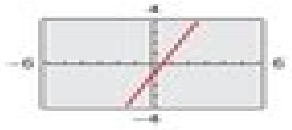

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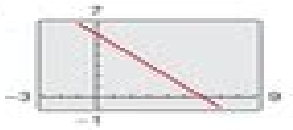
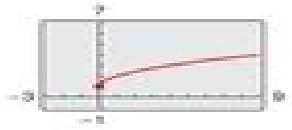


17.



18.

Verifying Inverse Functions Algebraically **In Exercises 19–24, show that f and g are inverse functions algebraically. Use a graphing utility to graph f and g in the same viewing window. Describe the relationship between the graphs.**

19. $f(x) = x^3$, $g(x) = \sqrt[3]{x}$
20. $f(x) = \frac{1}{x}$, $g(x) = \frac{1}{x}$
21. $f(x) = \sqrt{x - 4}$; $g(x) = x^2 + 4$, $x \geq 0$
22. $f(x) = 9 - x^2, x \geq 0$; $g(x) = \sqrt{9 - x}$
23. $f(x) = 1 - x^3$, $g(x) = \sqrt[3]{1 - x}$
24. $f(x) = \frac{1}{1 + x}, x \geq 0$; $g(x) = \frac{1 - x}{x}, 0 < x \leq 1$

Algebraic-Graphical-Numerical **In Exercises 25–34, show that f and g are inverse functions (a) algebraically, (b) graphically, and (c) numerically.**

25. $f(x) = -\frac{7}{2}x - 3$, $g(x) = -\frac{2x + 6}{7}$
26. $f(x) = \frac{x - 9}{4}$, $g(x) = 4x + 9$
27. $f(x) = x^3 + 5$, $g(x) = \sqrt[3]{x - 5}$
28. $f(x) = \frac{x^3}{2}$, $g(x) = \sqrt[3]{2x}$
29. $f(x) = -\sqrt{x - 8}$; $g(x) = 8 + x^2$, $x \leq 0$
30. $f(x) = \sqrt[3]{3x - 10}$; $g(x) = \frac{x^3 + 10}{3}$, $x \geq 0$
31. $f(x) = 2x$, $g(x) = \frac{x}{2}$
32. $f(x) = -3x + 5$, $g(x) = -\frac{x - 5}{3}$
33. $f(x) = \frac{x - 1}{x + 5}$, $g(x) = -\frac{5x + 1}{x - 1}$
34. $f(x) = \frac{x + 3}{x - 2}$, $g(x) = \frac{2x + 3}{x - 1}$

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