

LESSON 3.7 Practice A
 For use with the lesson "Graph Linear Functions"

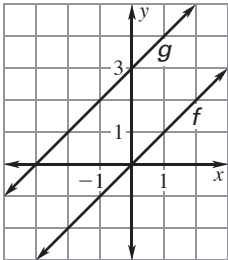
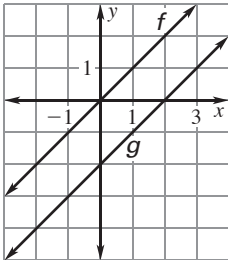
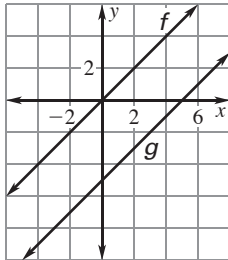
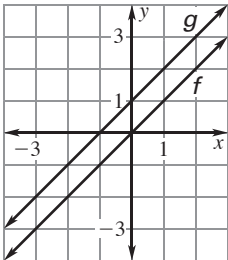
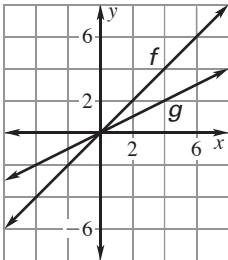
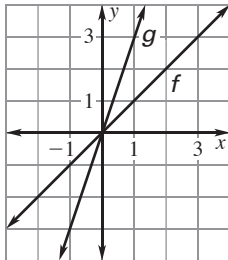
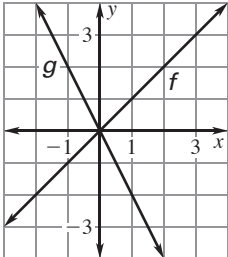
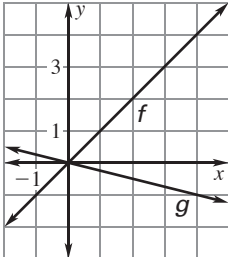
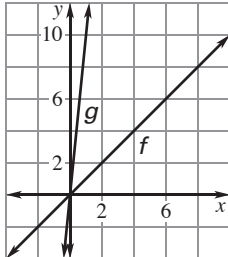
Evaluate the function when $x = -3, 0,$ and $2.$

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|----------------------|---------------------------|----------------------------|
| 1. $f(x) = 10x + 3$ | 2. $g(x) = 7x - 5$ | 3. $p(x) = -x + 4$ |
| 4. $p(x) = x + 9$ | 5. $d(x) = -3x + 1$ | 6. $f(x) = 4x - 3$ |
| 7. $h(x) = -2x + 11$ | 8. $m(x) = -5x - 8$ | 9. $f(x) = 1.1x$ |
| 10. $s(x) = -3.2x$ | 11. $d(x) = \frac{1}{3}x$ | 12. $h(x) = -\frac{1}{4}x$ |

Find the value of x so that the function has the given value.

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|---------------------------|---------------------------|---------------------------|
| 13. $h(x) = x + 12; 9$ | 14. $m(x) = 3x - 2; 7$ | 15. $p(x) = -2x + 5; -1$ |
| 16. $f(x) = 4x + 3; 9$ | 17. $g(x) = -x + 8; 1$ | 18. $h(x) = 6x - 5; 7$ |
| 19. $m(x) = -8x + 10; -6$ | 20. $p(x) = 8x + 22; 6$ | 21. $d(x) = -5x - 3; 2$ |
| 22. $f(x) = 2x - 8; 0$ | 23. $g(x) = -5x + 10; 20$ | 24. $h(x) = -8x + 10; -6$ |

Compare the graph of $g(x)$ to the graph of $f(x) = x.$

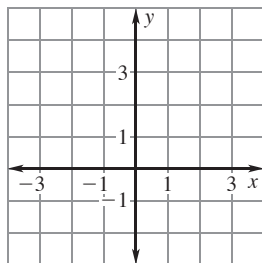
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|---|---|---|
| 25.  | 26.  | 27.  |
| 28.  | 29.  | 30.  |
| 31.  | 32.  | 33.  |

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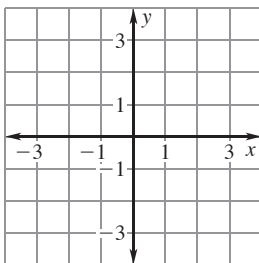
Practice A *continued*
For use with the lesson "Graph Linear Functions"

Graph the function. Compare the graph of $g(x)$ to the graph of $f(x) = x$.

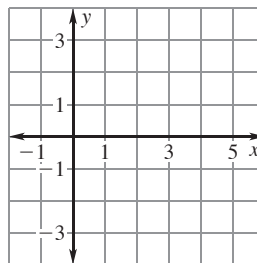
34. $g(x) = x + 4$



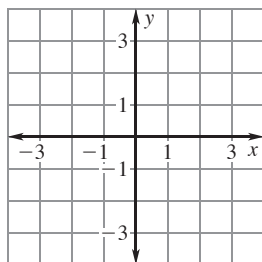
35. $g(x) = x - 3$



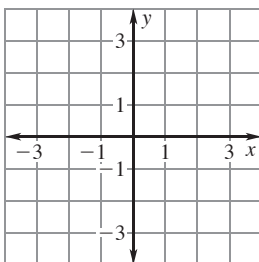
36. $g(x) = \frac{1}{5}x$



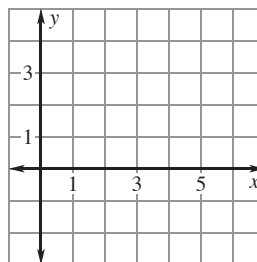
37. $g(x) = 8x$



38. $g(x) = -3x$

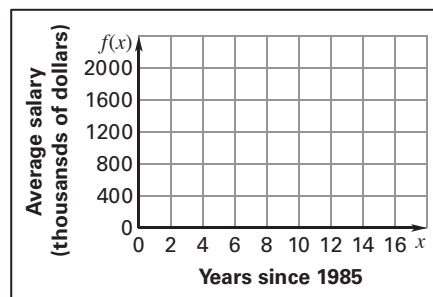


39. $g(x) = -\frac{1}{6}x$



40. Baseball Salaries The average salary (in thousands of dollars) of a major league baseball player from 1985 to 2001 can be modeled by the function $f(x) = 106x + 185$ where x is the number of years since 1985.

- Graph the function and identify its domain and range.
- Find the value of $f(x)$ when $x = 5$. *Explain* what the solution means in this situation.
- Find the value of x so that $f(x) = 1000$. *Explain* what the solution means in this situation.



41. Cable Television The average monthly cost (in dollars) of cable television from 1995 to 2001 can be modeled by the function $f(x) = 1.56x + 21.5$ where x is the number of years since 1995.

- Graph the function and identify its domain and range.
- Find the value of x so that $f(x) = 28$. *Explain* what the solution means in this situation.

