CHAPTER REVIEW

1.2

Evaluate and Simplify Algebraic Expressions

pp. 10–16

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Simplify the expression.

5(y-4) - 3(2y-9) = 5y - 20 - 6y + 27= (5y - 6y) + (-20 + 27)= -y + 7

Distributive property Group like terms. Combine like terms.

EXERCISES

Simplify the expression.

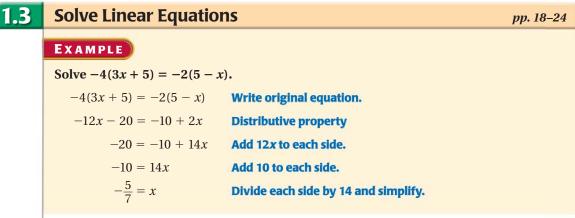
3 and 4
on pp. 11–12
for Exs. 10-16

EXAMPLES

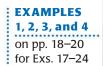
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10. $25x + 14 - 17 - 6x$	11. $6y + 12x - 12y - 9x$
12. $6(n-2) - 8n + 40$	13. $5(2b+3) + 8(b-6)$
14. $3g + 9g^2 - 12g^2 + g$	15. $7t^4 + 7t^2 - 2t^2 - 9t^4$

16. TAXI RATES A New York City taxi charges \$2.50, plus \$.40 for each fifth of a mile if it is not delayed by traffic. Write an expression for the cost of the ride if you travel *x* miles in the taxi with no traffic delays.



EXERCISES



Solve the equation. Check your solution.

17. $24x + 16 = 12$	18. $-6y + 15 = -9$
19. $4(q-5) = 16$	20. $7m + 38 = -5m - 16$
21. $48j + 25 = 12j - 11$	22. $8(2n-5) = 3(6n-2)$

- **23. SALES TAX** You buy a jacket, and the sales tax is 6%. The total cost is \$79.49. Find the cost of the jacket before the tax.
- 24. **FOOD SHOPPING** At a vegetable stand, you bought 3 pounds of peppers for \$4.50. Green peppers cost \$1 per pound and orange peppers cost \$4 per pound. Find how many pounds of each kind of pepper you bought.

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