

Practice B

For use with pages 584–589

Find the product.

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|-------------------------------|--------------------------|-----------------------------|
| 1. $5(2x + 3)$ | 2. $-7(5x - 3)$ | 3. $(6x)(3x - 4)$ |
| 4. $6x(2x^2 - 5x + 1)$ | 5. $(4x^2 - 7x)(-x)$ | 6. $(3m^2 - 1)(-6m^3)$ |
| 7. $2x^2(x^3 - x^2 + 8x - 5)$ | 8. $(6x - 5x^2 + 8)(3x)$ | 9. $(3a^2 - 7a + 9)(-5a^2)$ |

Use the distributive property to find the product.

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|------------------------|------------------------------|-------------------------------|
| 10. $(2x + 3)(x - 1)$ | 11. $(t + 2)(t + 2)$ | 12. $(n + 4)(n + 2)$ |
| 13. $(3a + 7)(3a - 7)$ | 14. $(2x^2 - 5x + 3)(x + 4)$ | 15. $(2x^2 - 5x + 4)(3x + 1)$ |

Use the FOIL pattern to find the product.

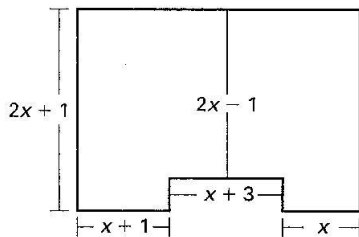
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|-----------------------|-----------------------|------------------------|
| 16. $(m + 7)(m + 1)$ | 17. $(2t + 1)(t + 3)$ | 18. $(x - 4)(x - 2)$ |
| 19. $(3x + 8)(x + 2)$ | 20. $(5x - 3)(x + 7)$ | 21. $(6n + 1)(5n - 3)$ |

Find the product.

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|--|---|----------------------------------|
| 22. $(3x + 2)(x + 5)$ | 23. $(x + 5)(x - 6)$ | 24. $(x - 8)(x - 4)$ |
| 25. $(x - 7)(x + 4)$ | 26. $(x + 1)(8x - 3)$ | 27. $(5x - 2)(x - 6)$ |
| 28. $(x^2 - 3)(x + 4)$ | 29. $(x + 5)(x^2 + 4x)$ | 30. $(\frac{1}{2}x + 3)(4x + 5)$ |
| 31. $(\frac{1}{3}x - 2)(\frac{1}{2}x + 6)$ | 32. $(x + \frac{1}{2})(2x - \frac{1}{3})$ | 33. $(3x + 2)(2x + 5)$ |
| 34. $(2x - 1)(6x - 7)$ | 35. $(5x + 2)(5x^2 - 2)$ | 36. $(4x - 9)(3x + 1)$ |
| 37. $(2x^2 + 4)(3x + 1)$ | 38. $(6x + 5)(2x - \frac{1}{3})$ | 39. $(4x - 1)(8x^2 + 3)$ |

Lesson 10.2

40. **Floor Plan** The floor plan of a home is shown below. Find an expression for the area of the home. What is the area if $x = 20$ feet?



41. **Volume** Find an expression for the volume of the box. What is the volume if $x = 2$ inches?

