

LESSON 9.2

Use the Distributive Property to find each product.

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|-----------------|-----------------|-----------------|------------------|
| 1. $5(x + 4)$ | 2. $6(2x + 6)$ | 3. $7(x + 11)$ | 4. $4(x - 7)$ |
| 5. $3(2x - 6)$ | 6. $-4(x + 2)$ | 7. $-3(x - 2)$ | 8. $5(3x - 4)$ |
| 9. $x(2 - x)$ | 10. $x(3 + 3x)$ | 11. $-x(4 + x)$ | 12. $-x(x - 4)$ |
| 13. $5x(x + 3)$ | 14. $2x(4 - x)$ | 15. $x(-x + 6)$ | 16. $-2x(x - 4)$ |

Use the Distributive Property to find each product.

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|------------------------|----------------------|-----------------------|
| 17. $(x + 2)(x + 3)$ | 18. $(z - 5)(z - 1)$ | 19. $(a + 2)(a - 4)$ |
| 20. $(b - 2)(b - 3)$ | 21. $(d + 3)(d + 4)$ | 22. $(y - 2)(y + 5)$ |
| 23. $(c + 6)(c + 6)$ | 24. $(w + 4)(w - 3)$ | 25. $(m - 2)(m - 4)$ |
| 26. $(a + 5)(a - 6)$ | 27. $(s + 4)(s - 3)$ | 28. $(x - 6)(x + 1)$ |
| 29. $(s + 7)(s - 2)$ | 30. $(b - 9)(b + 3)$ | 31. $(w + 6)(w - 1)$ |
| 32. $(q + 5)(q - 3)$ | 33. $(w + 8)(w - 8)$ | 34. $(r - 9)(r - 2)$ |
| 35. $(m + 10)(m - 11)$ | 36. $(n - 7)(n + 9)$ | 37. $(a - 1)(a - 10)$ |

LESSON 9.3

Use the FOIL method to find each product.

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|--------------------------|--------------------------|-----------------------|
| 1. $(w + 10)(w + 2)$ | 2. $(c - 5)(c - 5)$ | 3. $(y - 3)(y - 9)$ |
| 4. $(r - 4)(r + 7)$ | 5. $(w + 8)(w - 3)$ | 6. $(3z - 1)(2z + 1)$ |
| 7. $(4x + 3)(x - 2)$ | 8. $(2t - 1)(2t + 3)$ | 9. $(5x - 2)(3x + 2)$ |
| 10. $(8s - 1)(s + 4)$ | 11. $(4w - 5)(3w - 1)$ | 12. $(a + b)(a + b)$ |
| 13. $(r + s)(r - s)$ | 14. $(2x - z)(x - z)$ | 15. $(a + 2b)(a - b)$ |
| 16. $(y + 3x)(2y - x)$ | 17. $(p + q)^2$ | 18. $(c^2 + d)^2$ |
| 19. $(m^2 - n)(m^2 + n)$ | 20. $(3c + 4d)(2c - 4d)$ | 21. $(x + 3)(x + 6)$ |

Find each product by using the rules for special products.

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|------------------------|--------------------------|------------------------|
| 22. $(2x + 6)(2x - 6)$ | 23. $(x - 11)(x + 11)$ | 24. $(x - 7)(x - 7)$ |
| 25. $(2x - 6)(2x - 6)$ | 26. $(4x + 5)(4x - 5)$ | 27. $(x - 6)(x + 6)$ |
| 28. $(3x - 4)(3x + 4)$ | 29. $(2 + x)(2 - x)$ | 30. $(3 + 5x)(3 + 5x)$ |
| 31. $(8 - x)(8 - x)$ | 32. $(x - 4)(x - 4)$ | 33. $(7x + 3)(7x + 3)$ |
| 34. $(4 - x)(4 + x)$ | 35. $(-5x + 6)(-5x + 6)$ | 36. $(2x - 9)(2x - 9)$ |
| 37. $(x + 4)(x + 4)$ | | |