

Greatest Common Factors

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|---------------------|-------------------|
| 1. $7(x+7)$ | 2. $2(4m-3)$ |
| 3. $5(a^2-3)$ | 4. $8(8-5b)$ |
| 5. $6(p-12)$ | 6. $3(2x^2+4x+5)$ |
| 7. $p(p-9)$ | 8. $n(3n-1)$ |
| 9. $x^3(2x^2+5x+3)$ | 10. $8x(x^2-2)$ |
| 11. $4y(5+6y)$ | 12. $5q(2-5q)$ |
| 13. $6z^3(z-3)$ | 14. $7a^2(a+2)$ |
| 15. $3x(3x^2+2x+6)$ | |

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Factoring Special Products

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

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2-1 Exercises 1-15, 21-31 ODD, 33-36 ALL

1. $(x+4)(x+9)$ 3. $(x+10)(x+4)$

5. $(x+8)(x+2)$ 7. $(x-6)(x-1)$

9. $(x-8)(x-3)$ 11. $(x+9)(x-3)$

13. $(x-2)(x+1)$ 15. $(x-9)(x+5)$

21. $(x+14)(x+2)$ 23. $(x-5)(x-1)$

25. $(x-8)(x-4)$ 27. $(x+7)(x-3)$

29. $(x-13)(x+1)$ 31. $(x-7)(x+5)$

33. C 34. A 35. D 36. B

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2-2 Exercises 1-9 odd, 15, 17

1. $(2x+5)(x+2)$ 3. $(5x-3)(x+2)$

5. $(3x+4)(x-6)$ 7. $(5x+1)(x+2)$

9. $(4x-5)(x-1)$ 15. $(2x-3)(x+2)$

17. $(10x+1)(x-1)$

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