

Factoring with a Difference of Squares and Perfect Trinomials (Solutions)

III. Factoring the Difference of Two Squares

1. $(x + 1)(x - 1)$
2. $(x + 3)(x - 3)$
3. prime
4. $(x + 5)(x - 5)$
5. $(3y + 4)(3y - 4)$
6. $(2x + 5)(2x - 5)$
7. $(3x + 1)(3x - 1)$
8. $(a + x)(a - x)$
9. $(5 + m)(5 - m)$
10. $(x + 4y)(x - 4y)$
11. $(5m + n)(5m - n)$
12. $(4 + x)(4 - x)$
13. $(6m + 11)(6m - 11)$
14. $2(x + 2)(x - 2)$
15. prime
16. $(2a + 9b)(2a - 9b)$
17. $3(2x + 5)(2x - 5)$
18. $b(a + b)(a - b)$
19. $-2(7 + x)(7 - x)$ or $2(x + 7)(x - 7)$
20. $5(x + 3y)(x - 3y)$
21. $(3x^2 + 2)(3x^2 - 2)$
22. $(4x^2 + y)(4x^2 - y)$

IV. Factoring Perfect Square Trinomials

1. $(x + 4)^2$
2. $(x - 8)^2$
3. $(y + 6)^2$
4. $(a - 5)^2$
5. $(4y + 1)^2$
6. $(3x - 1)^2$
7. $(5x + 1)^2$
8. $(n - 7)^2$
9. $(9x - 5)^2$
10. $(2y - 5)^2$
11. $(5a + 6)^2$
12. $(4 + 5x)^2$
13. $(4x + 3)^2$
14. $(7x - 1)^2$
15. $(3y - 5)^2$
16. prime
17. $(b + 1)^2$
18. $(6x + 7)^2$
19. $(x - 9)^2$
20. $(3y - 2)^2$