

Factor each completely.

1. $x^2 - 13x + 42$

2. $2y^2 - 9y - 5$

3. $n^2 - 4$

4. $3c^2 - 17c - 6$

5. $a^2 + 2a - 35$

6. $3x^2 - 10x + 8$

7. $25x^2 - 81$

8. $3x^2 + 7x + 2$

9. $2x^2 + 9x + 4$

10. $x^2 + 2x - 63$

11. $p^3 - 12p^2 - 28p$

12. $x^2 - 49$

13. $r^2 + 2r - 35$

14. $64x^2 + 160x + 100$

15. $3y^2 + 7y - 6$

16. $3a^3 - 48a$

17. $4y^2 + 18y + 14$

18. $7x^2 - 30x + 8$

19. $x^2 - 9x + 14$

20. $n^2 + 16n - 36$

21. $36x^2 - 84x + 49$

22. $y^2 - 16y + 64$

23. $6x^3 - 15x^2 + 9x$

24. $9x^2 - 64$

1. $(x-7)(x-6)$ 2. $(y-5)(2y+1)$ 3. $(n+2)(n-2)$ 4. $(c-6)(3c+1)$ 5. $(a+7)(a-5)$ 6. $(x-2)(3x-4)$ 7. $(5x+9)(5x-9)$ 8. $(x+2)(3x+1)$

9. $(x+4)(2x+1)$ 10. $(x+9)(x-7)$ 11. $p(p-14)(p+2)$ 12. $(x+7)(x-7)$ 13. $(r+7)(r-5)$ 14. $4(4x+5)^2$ 15. $(3y-2)(y+3)$ 16. $3a(a+4)(a-4)$
17. $2(y+1)(2y+7)$ 18. $(7x-2)(x-4)$ 19. $(x-7)(x-2)$ 20. $(n+18)(n-2)$ 21. $(6x-7)^2$ 22. $(y-8)(y-8)$ 23. $3x(2x-3)(x-1)$ 24. $(3x+8)(3x-8)$

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