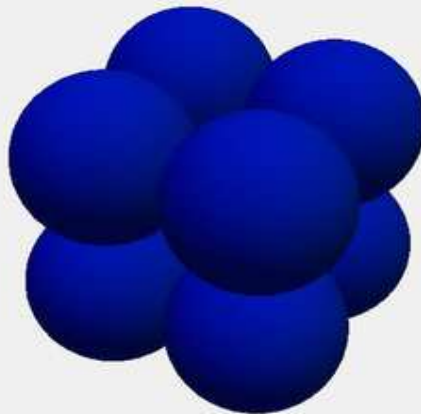


MathCon

The Mathematics Firm

Ejercicios de Factorizar Enteros

Lista de Ejercicios



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Factorización de trinomios

Factorizar los siguientes polinomios como producto de tres binomios de la forma $(x \pm a)(x \pm b)(x \pm c)$.

- | | |
|-----------------------------|------------------------------|
| 1. $x^3 - 2x^2 - 5x + 6$ | Sol: $(x + 2)(x - 1)(x - 3)$ |
| 2. $x^3 + 2x^2 - 9x - 18$ | Sol: $(x + 3)(x + 2)(x - 3)$ |
| 3. $x^3 + 3x^2 - 4x - 12$ | Sol: $(x + 3)(x + 2)(x - 2)$ |
| 4. $x^3 - 8x^2 + 19x - 12$ | Sol: $(x - 4)(x - 1)(x - 3)$ |
| 5. $x^3 - 4x^2 - x + 4$ | Sol: $(x - 4)(x - 1)(x + 1)$ |
| 6. $x^3 + x^2 - 4x - 4$ | Sol: $(x - 2)(x + 1)(x + 2)$ |
| 7. $x^3 + 6x^2 + 11x + 6$ | Sol: $(x + 1)(x + 2)(x + 3)$ |
| 8. $x^3 + 3x^2 - 16x - 48$ | Sol: $(x - 4)(x + 3)(x + 4)$ |
| 9. $x^3 + 9x^2 + 26x + 24$ | Sol: $(x + 2)(x + 3)(x + 4)$ |
| 10. $x^3 - 2x^2 - 5x + 6$ | Sol: $(x - 3)(x - 1)(x + 2)$ |
| 11. $x^3 - 2x^2 - 16x + 32$ | Sol: $(x - 4)(x - 2)(x + 4)$ |
| 12. $x^3 + x^2 - 10x + 8$ | Sol: $(x - 2)(x - 1)(x + 4)$ |
| 13. $x^3 + 4x^2 + x - 6$ | Sol: $(x - 1)(x + 2)(x + 3)$ |
| 14. $x^3 + 3x^2 - 10x - 24$ | Sol: $(x - 3)(x + 2)(x + 4)$ |
| 15. $x^3 - 13x + 12$ | Sol: $(x - 3)(x - 1)(x + 4)$ |
| 16. $x^3 - x^2 - 16x + 16$ | Sol: $(x - 4)(x - 1)(x + 4)$ |
| 17. $x^3 + 7x^2 + 14x + 8$ | Sol: $(x + 1)(x + 2)(x + 4)$ |
| 18. $x^3 + 3x^2 - 4x - 12$ | Sol: $(x - 2)(x + 2)(x + 3)$ |
| 19. $x^3 - 9x^2 + 26x - 24$ | Sol: $(x - 4)(x - 3)(x - 2)$ |
| 20. $x^3 + 5x^2 + 2x - 8$ | Sol: $(x - 1)(x + 2)(x + 4)$ |
| 21. $x^3 - 3x^2 - 13x + 15$ | Sol: $(x - 5)(x - 1)(x + 3)$ |
| 22. $x^3 - 5x^2 - x + 5$ | Sol: $(x - 5)(x - 1)(x + 1)$ |
| 23. $x^3 + 3x^2 - 18x - 40$ | Sol: $(x - 4)(x + 2)(x + 5)$ |
| 24. $x^3 + 5x^2 - x - 5$ | Sol: $(x - 1)(x + 1)(x + 5)$ |
| 25. $x^3 - x^2 - 25x + 25$ | Sol: $(x - 5)(x - 1)(x + 5)$ |
| 26. $x^3 - 8x^2 + 17x - 10$ | Sol: $(x - 5)(x - 2)(x - 1)$ |
| 27. $x^3 + 6x^2 + 5x - 12$ | Sol: $(x - 1)(x + 3)(x + 4)$ |
| 28. $x^3 + 5x^2 - 2x - 24$ | Sol: $(x - 2)(x + 3)(x + 4)$ |

29. $x^3 + 2x^2 - 13x + 10$ Sol: $(x - 2)(x - 1)(x + 5)$
30. $x^3 + 6x^2 - x - 30$ Sol: $(x - 2)(x + 3)(x + 5)$
31. $x^3 - 4x^2 - 7x + 10$ Sol: $(x - 5)(x - 1)(x + 2)$
32. $x^3 - 4x^2 - 4x + 16$ Sol: $(x - 4)(x - 2)(x + 2)$
33. $x^3 + x^2 - 17x + 17$ Sol: $(x - 3)(x - 1)(x + 5)$
34. $x^3 - 6x^2 + 3x + 10$ Sol: $(x - 5)(x - 2)(x + 1)$
35. $x^3 + 6x^2 - 7x - 60$ Sol: $(x - 3)(x + 4)(x + 5)$
36. $x^3 + 2x^2 - 23x - 60$ Sol: $(x - 5)(x + 3)(x + 4)$
37. $x^3 + 2x^2 - 11x - 12$ Sol: $(x - 3)(x + 1)(x + 4)$
38. $x^3 - 11x^2 + 38x - 40$ Sol: $(x - 5)(x - 4)(x - 2)$
39. $x^3 - 13x^2 + 54x - 72$ Sol: $(x - 6)(x - 4)(x - 3)$
40. $x^3 - 5x^2 - 9x + 45$ Sol: $(x - 5)(x - 3)(x + 3)$
41. $x^3 + 8x^2 - 3x - 90$ Sol: $(x - 3)(x + 5)(x + 6)$
42. $x^3 + 7x^2 - 14x - 120$ Sol: $(x - 4)(x + 5)(x + 6)$
43. $x^3 + 9x^2 + 14x - 24$ Sol: $(x - 1)(x + 4)(x + 6)$
44. $x^3 + 4x^2 - 36x - 144$ Sol: $(x - 6)(x + 4)(x + 6)$
45. $x^3 + 11x^2 + 36x + 36$ Sol: $(x + 2)(x + 3)(x + 6)$
46. $x^3 + 13x^2 + 52x + 60$ Sol: $(x + 2)(x + 5)(x + 6)$
47. $x^3 + 2x^2 - 21x + 18$ Sol: $(x - 3)(x - 1)(x + 6)$
48. $x^3 + 6x^2 - 16x - 96$ Sol: $(x - 4)(x + 4)(x + 6)$
49. $x^3 + 5x^2 - 26x - 120$ Sol: $(x - 5)(x + 4)(x + 6)$
50. $x^3 + 9x^2 + 6x - 56$ Sol: $(x - 2)(x + 4)(x + 7)$