

EJERCICIO

18

MISCELANEA SOBRE LOS 10 CASOS DE DESCOMPOSICION EN FACTORES

Descomponer en factores:

- | | | |
|---|---|---|
| 1. $x^2 + 2mx + x^2$. | 40. $1 + (a-3b)^8$. | 80. $x^6 - 4x^3 - 480$. |
| 2. $x^2 - ab - b$. | 41. $x^4 + x^2 + 25$. | 81. $ax - bx + b - a - by + ay$. |
| 3. -36 . | 42. $a^8 - 28a^4 + 36$. | 82. $6am - 3m - 2a + 1$. |
| 4. $6xy + y^2$. | 43. $343 + 8a^3$. | 83. $15 + 14x - 8x^2$. |
| 5. $-3x - 4$. | 44. $12a^2bx - 15a^2by$. | 84. $a^{10} - a^5 + a^6 + a^4$. |
| 6. $x - 2$. | 45. $x^2 + 2xy - 15y^2$. | 85. $2x(a-1) - a + 1$. |
| 7. $x^2 - 1$. | 46. $6am - 4an - 2n + 3m$. | 86. $(m+n)(m-n) + 3n(m-n)$. |
| 8. $x^2 + m^2$. | 47. $81a^6 - 4b^2c^8$. | 87. $a^2 - b^2 + 2b^3x^2 - 2a^2x^2$. |
| 9. $-3a^2b + 5ab^2$. | 48. $16 - (2a+b)^2$. | 88. $2am - 3b - c - cm - 3bm + 2a$. |
| 10. $-6y + xz - 3z$. | 49. $20 - x - x^2$. | 89. $x^2 - \frac{2}{3}x + \frac{1}{9}$. |
| 11. $-4b + 4b^2$. | 50. $n^2 + n - 42$. | 90. $4a^{2n} - b^{4n}$. |
| 12. $4 + 3x^2y^2 + y^4$. | 51. $a^2 - d^2 + n^2 - c^2 - 2an - 2cd$. | 91. $81x^2 - (a+x)^2$. |
| 13. $-6x^4y^4 + y^8$. | 52. $1 + 216x^6$. | 92. $a^2 + 9 - 6a - 16x^2$. |
| 14. $a = 30$. | 53. $x^3 - 64$. | 93. $9a^2 - x^2 - 4 + 4x$. |
| 15. $m^2 + 11m - 14$. | 54. $x^3 - 64x^4$. | 94. $9x^2 - y^2 + 3x - y$. |
| 16. $x^2 - 27y^6$. | 55. $18ax^5y^3 - 36x^4y^8 - 54x^2y^8$. | 95. $x^2 - x - 72$. |
| 17. $a^2 - 24ab + 9b^2$. | 56. $49a^2b^2 - 14ab + 1$. | 96. $36a^4 - 120a^2b^2 + 49b^4$. |
| 18. $1 + a$. | 57. $(x+1)^2 - 81$. | 97. $a^2 - m^2 - 9n^2 - 6mn + 4ab + 4b^2$. |
| 19. $-12a^2 + 6a - 1$. | 58. $a^2 - (b+c)^2$. | 98. $1 - \frac{4}{9}a^6$. |
| 20. $1 - m^2$. | 59. $(m+n)^2 - 6(m+n) + 9$. | 99. $81a^8 + 64b^{12}$. |
| 21. $4x^2 - 21$. | 60. $7x^2 + 31x - 20$. | 100. $49x^2 - 77x + 30$. |
| 22. $2x^6 + 1$. | 61. $9a^3 + 63a - 45a^2$. | 101. $x^2 - 2abx - 35a^2b^2$. |
| 23. $-2ab + b^2 - m^2$. | 62. $ax + a - x - 1$. | 102. $125x^3 - 225x^2 + 135x - 27$. |
| 24. $-2b + 16a^3b - 24a^2b^2$. | 63. $81x^4 + 25y^2 - 90x^2y$. | 103. $(a-2)^2 - (a+3)^2$. |
| 25. $4x^2 - x - 1$. | 64. $1 - 27b^2 + b^4$. | 104. $4a^2m + 12a^2n - 5bm - 15bn$. |
| 26. $4x^2 + 19x - 20$. | 65. $m^4 + m^2n^2 + n^4$. | 105. $1 + 6x^3 + 9x^6$. |
| 27. $5x^2 - 31y^2$. | 66. $c^4 - 4d^4$. | 106. $a^4 + 3a^2b - 40b^2$. |
| 28. $1 - m^2$. | 67. $15x^4 - 15x^3 + 20x^2$. | 107. $m^3 + 8a^3x^3$. |
| 29. $-a^2 + 2xy + y^2 + 2ab - b^2$. | 68. $a^2 - x^2 - a - x$. | 108. $1 - 9x^2 + 24xy - 16y^2$. |
| 30. $1m^5n - 7m^4n^2 + 7m^3n^3 - 1m^2n$. | 69. $x^4 - 8x^2 - 240$. | 109. $1 + 11x + 24x^2$. |
| 31. $a(x+1) - b(x+1) + c(x+1)$. | 70. $6m^4 + 7m^2 - 20$. | 110. $9x^2y^3 - 27x^3y^3 - 9x^5y^3$. |
| 32. $a(x-y) + (x-y)^2$. | 71. $9n^2 + 4a^2 - 12an$. | 111. $(a^2 + b^2 - c^2)^2 - 9x^2y^2$. |
| 33. a^2b^4 . | 72. $2x^2 + 2$. | 112. $8(a+1)^3 - 1$. |
| 34. $12ab + 36a^2$. | 73. $7a(x+y-1) - 3b(x+y-1)$. | 113. $100x^4y^6 - 121m^4$. |
| 35. $4x^8 - 77$. | 74. $x^2 + 3x - 18$. | 114. $(a^2 + 1)^2 + 5(a^2 + 1) - 24$. |
| 36. $15x^2 - 17x^2 - 4$. | 75. $(a+m)^2 - (b+n)^2$. | 115. $1 + 1000x^6$. |
| | 76. $x^3 + 6x^2y + 12xy^2 + 8y^3$. | |
| | 77. $8a^2 - 22a - 21$. | |
| | 78. $1 + 18ab + 81a^2b^2$. | |
| | 79. $4a^6 - 1$. | |

Matemática 3^{er} año

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