

Halla el factor común de los siguientes ejercicios:

1. $6x - 12 =$	2. $4x - 8y =$
3. $24a - 12ab =$	4. $10x - 15x^2 =$
5. $14m^2n + 7mn =$	6. $4m^2 - 20am =$
7. $8a^3 - 6a^2 =$	8. $ax + bx + cx =$
9. $b^4 - b^3 =$	10. $4a^3bx - 4bx =$
11. $14a - 21b + 35 =$	12. $3ab + 6ac - 9ad =$
13. $20x - 12xy + 4xz =$	14. $6x^4 - 30x^3 + 2x^2 =$
15. $10x^2y - 15xy^2 + 25xy =$	16. $12m^2n + 24m^3n^2 - 36m^4n^3 =$
17. $2x^2 + 6x + 8x^3 - 12x^4 =$	18. $10p^2q^3 + 14p^3q^2 - 18p^4q^3 - 16p^5q^4 =$
19. $m^3n^2p^4 + m^4n^3p^5 - m^6n^4p^4 + m^2n^4p^3 =$	
20. $\frac{3}{4}x^2y - \frac{8}{9}xy^2 =$	
21. $\frac{1}{2}a^2b^3 + \frac{1}{4}a^3b^4 - \frac{1}{8}a^2b^5 + \frac{1}{16}a^4b^2 =$	
22. $\frac{4}{35}a^2b - \frac{12}{5}ab + \frac{8}{15}a^2b^3 - \frac{16}{25}a^3b =$	

Desarrolla las operaciones y encuentra el factor común.

23. $a(x + 1) + b(x + 1) =$	24. $m(2a + b) + p(2a + b) =$
25. $x^2(p + q) + y^2(p + q) =$	26. $(a^2 + 1) - b(a^2 + 1) =$
27. $(1 - x) + 5c(1 - x) =$	28. $a(2 + x) - (2 + x) =$
29. $(x + y)(n + 1) - 3(n + 1) =$	30. $(a + 1)(a - 1) - 2(a - 1) =$
31. $(a + b) - b(a + b) =$	32. $(2x + 3)(3 - r) - (2x - 5)(3 - r) =$

Agrupar por su factor común.

33. $a^2 + ab + ax + bx =$ $a(a+x) + b(a+x)$ $(a + b)(a+x)$	34. $ab + 3a + 2b + 6 =$
35. $ab - 2a - 5b + 10 =$	36. $2ab + 2a - b - 1 =$
37. $am - bm + an - bn =$	38. $3x^3 - 9ax^2 - x + 3a =$
39. $3x^2 - 3bx + xy - by =$	40. $6ab + 4a - 15b - 10 =$
41. $3a - b^2 + 2b^2x - 6ax =$	42. $a^3 + a^2 + a + 1 =$
43. $ac - a - bc + b + c^2 - c =$	
44. $6ac - 4ad - 9bc + 6bd + 15c^2 - 10cd =$	
45. $ax - ay - bx + by - cx + cy =$	
46. $3am - 8bp - 2bm + 12ap =$	
47. $18x - 12 - 3xy + 2y + 15xz - 10z =$	
48. $\frac{15}{4}x^2 - \frac{21}{4}xz - \frac{10}{3}xy + \frac{143}{3}yz + 5x - 7z =$	
49. $\frac{2}{3}am - \frac{8}{3}am - \frac{4}{5}bm + \frac{16}{5}bn =$	

Factorización de trinomios:

50. $x^2 + 4x + 3 =$	51. $a^2 + 7a + 10 =$
52. $b^2 + 8b + 15 =$	53. $x^2 - x - 2 =$
54. $r^2 - 12r + 27 =$	55. $s^2 - 14s + 33 =$
56. $h^2 - 27h + 50 =$	57. $y^2 - 3y - 4 =$
58. $x^2 + 14xy + 24y^2 =$	59. $m^2 + 19m + 48 =$
60. $x^2 + 5x + 4 =$	61. $x^2 - 12x + 35 =$

62. $5x^2 + 11x + 2 =$	63. $3a^2 + 10ab + 7b^2 =$
64. $4x^2 + 7x + 3 =$	65. $4h^2 + 5h + 1 =$
66. $5 + 7b + 2b^2 =$	67. $7x^2 - 15x + 2 =$
68. $5c^2 + 11cd + 2d^2 =$	69. $2x^2 + 5x - 12 =$
70. $6x^2 + 7x - 5 =$	71. $6a^2 + 23ab - 4b^2 =$
72. $3m^2 - 7m - 20 =$	73. $8x^2 - 14x + 3 =$
74. $5x^2 + 3xy - 2y^2 =$	75. $7p^2 + 13p - 2 =$
76. $6a^2 - 5a - 21 =$	77. $2x^2 - 17xy + 15y^2 =$
78. $2a^2 - 13a + 15 =$	

79. $9a^2 - 25b^2 =$	80. $16x^2 - 100 =$
81. $4x^2 - 1 =$	82. $9p^2 - 40q^2 =$
83. $36m^2n^2 - 25 =$	84. $49x^2 - 64t^2 =$
85. $169m^2 - 196n^2 =$	86. $121x^2 - 144k^2 =$
87. $\frac{9}{25}a^2 - \frac{49}{36}b^2 =$	88. $\frac{1}{25}x^4 - \frac{9}{16}y^4 =$
89. $3x^2 - 12 =$	90. $5 - 180f^2 =$
91. $8y^2 - 18 =$	92. $3x^2 - 75y^2 =$
93. $45m^3n - 20mn =$	94. $2a^5 - 162a^3 =$

95. $b^2 - 12b + 36 =$	96. $25x^2 + 70xy + 49y^2 =$
97. $m^2 - 2m + 1 =$	98. $x^2 + 10x + 25 =$
99. $16m^2 - 40mn + 25n^2 =$	100. $49x^2 - 14x + 1 =$
101. $36x^2 - 84xy + 49y^2 =$	102. $4a^2 + 4a + 1 =$
103. $1 + 6^a + 9a^2 =$	104. $25m^2 - 70mn + 49n^2 =$
105. $25a^2c^2 + 20acd + 4d^2 =$	106. $289a^2 + 68abc + 4b^2c^2 =$
107. $16x^6y^8 - 8x^3y^4z^7 + z^{14} =$	

108. $2ab + 4a^2b - 6ab^2 =$	109. $2xy^2 - 5xy + 10x^2y - 5x^2y^2 =$
110. $b^2 - 3b - 28 =$	111. $a^2 + 6a + 8 =$
112. $5a + 25ab =$	113. $bx - ab + x^2 - ax =$
114. $6x^2 - 4ax - 9bx + 6ab =$	115. $ax + ay + x + y =$
116. $8x^2 - 128 =$	117. $4 - 12y + 9y^2 =$
118. $x^4 - y^2 =$	119. $x^2 + 2x + 1 - y^2 =$
120. $(a + b)^2 - (c + d)^2 =$	121. $a^2 + 12ab + 36b^2 =$
122. $36m^2 - 12mn + n^2 =$	123. $x^{16} - y^{16} =$