

Operaciones con polinomios

Extraer factor común

Saca factor común:

- a) $x^4 + 5x^3 + x^2 - 7x = X(X^3 + 5X^2 + X - 7)$
- b) $4x^3 + 2x^2 = 2X^2(2X + 1)$
- c) $2x^6 + 12x^4 - 8x^2 = 2x^2(3x^4 + 6x^2 - 4)$
- d) $13x^4 + 26x^3 + 13x^2 = 13x^2(x^2 + 2x + 1)$
- e) $24x^5 + 12x^4 + 8x^2 - 8x + 40 = 4(6x^5 + 3x^4 + 2x^2 - 2x + 10)$
- f) $2x^4 + 10x^3 + 13x^2 = x^2(2x^2 + 10x + 13)$
- g) $2xy - 5x^2yz + 7xyz = xy(2 - 5xz + 7z)$
- h) $15a^4b^3c^2 - 5a^2b^3c^4 + 20a^3b^3c^3 = 5a^2b^3c^2(3a^2 - c^2 + 4ac)$
- i) $12m^5n^3p^2 - 5n^3p + 10m^2n^4p^4 - 20np^6 = np(12m^5n^2p - 5n^2 + 10m^2n^3p^3 - 20p^5)$
- j) $8a - 4b16c + 12d = 4(2a - 16bc + 3d)$
- k) $7x^2 + 11x^3 - 4x^5 + 3x^4 - x^8 = x^2(-x^6 - 4x^3 + 3x^2 + 11x + 7)$
- l) $9x^3 - 6x^2 + 12x^5 - 18x^7 = 3x^2(3x - 2 + 4x^3 - 6x^5)$
- m) $\frac{4}{3}x - \frac{8}{9}x^3 + \frac{16}{15}x^7 - \frac{2}{3}x^5 = \frac{2}{3}x\left(2 - \frac{4}{3}x^2 + \frac{8}{5}x^6 - x^4\right)$
- n) $9x^2ab - 3xa^2b^3 + x^2az = xa(9xb - 3ab^3 + xz)$
- o) $36x^4 - 48x^6 - 72x^3 + 60x^5 = 12x^3(3x - 4x^3 - 6x + 5x^2)$
- p) $8a - 4b + 16c + 12d = 4(2a - b + 4c + 3d)$
- q) $(x+1)3 - 5x(x+1) + (x+1)x^2 = (x+1) \cdot (3 - 5x + x^2)$
- r) $\frac{2}{5}x^5 - \frac{6}{5}x^4 + \frac{14}{15}x^2 = \frac{2}{5}x^2\left(x^3 - 3x^2 + \frac{7}{3}\right)$
- s) $xy - 2x - 3y + 6 = (y-2)(x-3)$
- t) $a^2 + ab + ax + bx = (a+b)(a+x)$
- u) $ab + 3a + 2b + 6 = (b+3)(a+2)$
- v) $\frac{2}{3}am - \frac{8}{3}am + \frac{4}{5}bm + \frac{16}{5}bm = 2m(2b - a)$