

Binomio elevado a la décima quinta potencia

$$(x + y)^1 = x + y$$

$$(x + y)^2 = x^2 + 2xy + y^2$$

$$(x + y)^3 = x^3 + 3x^2y + 3xy^2 + y^3$$

$$(x + y)^4 = x^4 + 4x^3y + 6x^2y^2 + 4xy^3 + y^4$$

$$(x + y)^5 = x^5 + 5x^4y + 10x^3y^2 + 10x^2y^3 + 5xy^4 + y^5$$

$$(x + y)^6 = x^6 + 6x^5y + 15x^4y^2 + 20x^3y^3 + 15x^2y^4 + 6xy^5 + y^6$$

$$(x + y)^7 = x^7 + 7x^6y + 21x^5y^2 + 35x^4y^3 + 35x^3y^4 + 21x^2y^5 + 7xy^6 + y^7$$

$$(x + y)^8 = x^8 + 8x^7y + 28x^6y^2 + 56x^5y^3 + 70x^4y^4 + 56x^3y^5 + 28x^2y^6 + 8xy^7 + y^8$$

$$(x + y)^9 = x^9 + 9x^8y + 36x^7y^2 + 84x^6y^3 + 126x^5y^4 + 126x^4y^5 + 84x^3y^6 + 36x^2y^7 + 9xy^8 + y^9$$

$$(x + y)^{10} = x^{10} + 10x^9y + 45x^8y^2 + 120x^7y^3 + 210x^6y^4 + 252x^5y^5 + 210x^4y^6 + 120x^3y^7 + 45x^2y^8 + 10xy^9 + y^{10}$$

$$(x + y)^{11} = x^{11} + 11x^{10}y + 55x^9y^2 + 165x^8y^3 + 330x^7y^4 + 462x^6y^5 + 462x^5y^6 + 330x^4y^7 + 165x^3y^8 + 55x^2y^9 + 11xy^{10} + y^{11}$$

$$(x + y)^{12} = x^{12} + 12x^{11}y + 66x^{10}y^2 + 220x^9y^3 + 495x^8y^4 + 792x^7y^5 + 924x^6y^6 + 792x^5y^7 + 495x^4y^8 + 220x^3y^9 + 66x^2y^{10} + 12xy^{11} + y^{12}$$

$$(x + y)^{13} = x^{13} + 13x^{12}y + 78x^{11}y^2 + 286x^{10}y^3 + 715x^9y^4 + 1287x^8y^5 + 1716x^7y^6 + 1716x^6y^7 + 1287x^5y^8 + 715x^4y^9 + 286x^3y^{10} + 78x^2y^{11} + 13xy^{12} + y^{13}$$

$$(x + y)^{14} = x^{14} + 14x^{13}y + 91x^{12}y^2 + 364x^{11}y^3 + 1001x^{10}y^4 + 2002x^9y^5 + 3003x^8y^6 + 3432x^7y^7 + 3003x^6y^8 + 2002x^5y^9 + 1001x^4y^{10} + 364x^3y^{11} + 91x^2y^{12} + 14xy^{13} + y^{14}$$

$$(x + y)^{15} = x^{15} + 15x^{14}y + 105x^{13}y^2 + 455x^{12}y^3 + 1365x^{11}y^4 + 3003x^{10}y^5 + 5005x^9y^6 + 6435x^8y^7 + 6435x^7y^8 + 5005x^6y^9 + 3003x^5y^{10} + 1365x^4y^{11} + 455x^3y^{12} + 105x^2y^{13} + 15xy^{14} + y^{15}$$