



• No hay •

MEJOR MEDICINA



que tener



pensamientos



ALEGRES.



Binômios Semana.

12

		1				
	1		1			
	1	2	1			
	1	3	3	1		
	1	4	6	4	1	
	1	5	10	10	5	1

1 $(a^2 - b^3)^5 =$

$$1(a^2)^5 - 5(a^2)^4(b^3)^1 + 10(a^2)^3(b^3)^2 - 10(a^2)^2(b^3)^3 + 5(a^2)^1(b^3)^4 - 1(b^3)^5$$

$$1(a^{10}) - 5(a^8)(b^3) + 10(a^6)(b^6) - 10(a^4)(b^9) + 5(a^2)(b^{12}) - 1(b^{15})$$

$$1a^{10} - 5a^8b^3 + 10a^6b^6 - 10a^4b^9 + 5a^2b^{12} - 1b^{15}$$

2 $(m^3 + 2n^4)^7$

$$1(m^3)^7 + 7(m^3)^6(2n^4)^1 + 21(m^3)^5(2n^4)^2 + 35(m^3)^4(2n^4)^3 + 35(m^3)^3(2n^4)^4 + 21(m^3)^2(2n^4)^5 + 7(m^3)^1(2n^4)^6 + 1(2n^4)^7$$

$$1(m^{21}) + 7(m^{18})(2n^4) + 21(m^{15})(4n^8) + 35(m^{12})(8n^{12}) + 35(m^9)(16n^{16}) + 21(m^6)(32n^{20}) + 7(m^3)(64n^{24}) + 1(128n^{28})$$

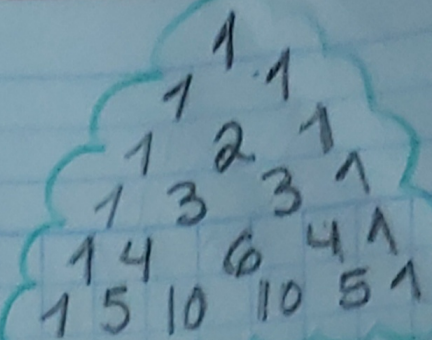
$$1m^{21} + 14m^{18}n^4 + 84m^{15}n^8 + 280m^{12}n^{12} + 560m^9n^{16} + 672m^6n^{20} + 448m^3n^{24} + 128n^{28}$$

		1						
	1		1					
	1	2	1					
	1	3	3	1				
	1	4	6	4	1			
	1	5	10	10	5	1		
	1	6	15	20	15	6	1	
	1	7	21	35	35	21	7	1

Binômios Semana.

12

1 $(a^2 - b^3)^5 =$

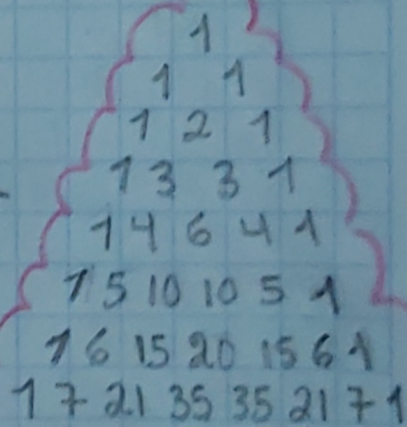


$$1(a^2)^5 - 5(a^2)^4(b^3)^1 + 10(a^2)^3(b^3)^2 - 10(a^2)^2(b^3)^3 + 5(a^2)^1(b^3)^4 - 1(b^3)^5$$

$$1(a^{10}) - 5(a^8)(b^3) + 10(a^6)(b^6) - 10(a^4)(b^9) + 5(a^2)(b^{12}) - 1(b^{15})$$

$$1a^{10} - 5a^8b^3 + 10a^6b^6 - 10a^4b^9 + 5a^2b^{12} - 1b^{15}$$

2 $(m^3 + 2n^4)^7$



$$1(m^3)^7 + 7(m^3)^6(2n^4)^1 + 21(m^3)^5(2n^4)^2 + 35(m^3)^4(2n^4)^3 + 35(m^3)^3(2n^4)^4 + 21(m^3)^2(2n^4)^5 + 7(m^3)^1(2n^4)^6 + 1(2n^4)^7$$

$$1(m^{21}) + 7(m^{18})(2n^4) + 21(m^{15})(4n^8) + 35(m^{12})(8n^{12}) + 35(m^9)(16n^{16}) + 21(m^6)(32n^{20}) + 7(m^3)(64n^{24}) + 1(128n^{28})$$

$$1m^{21} + 14m^{18}n^4 + 84m^{15}n^8 + 280m^{12}n^{12} + 560m^9n^{16} + 672m^6n^{20} + 448m^3n^{24} + 128n^{28}$$

3 $(3x - 2y)^4$

$$1(3x)^4 - 4(3x)^3(2y)^1 + 6(3x)^2(2y)^2 - 4(3x)^1(2y)^3 + 1(2y)^4$$

$$\begin{array}{ccccccc} & & & 1 & & & \\ & & 1 & & 1 & & \\ & 1 & & 2 & & 1 & \\ 1 & 1 & 3 & 6 & 3 & 1 & 1 \end{array}$$

$$1(81x^4) - 4(27x^3)(2y^1) + 6(9x^2)(4y^2) - 4(3x^1)(8y^3) + 1(16y^4)$$

$$81x^4 - 216x^3y^1 + 216x^2y^2 - 96x^1y^3 + 16y^4$$

4 $(5m - 2n)^5$

$$1(5m)^5 - 5(5m)^4(2n)^1 + 10(5m)^3(2n)^2 - 10(5m)^2(2n)^3 + 5(5m)^1(2n)^4 - 1(2n)^5$$

$$\begin{array}{ccccccc} & & & & 1 & & \\ & & & 1 & & 1 & \\ & & 1 & & 2 & & 1 \\ & 1 & 3 & & 3 & & 1 \\ 1 & 4 & 6 & & 4 & & 1 \\ 1 & 5 & 10 & & 10 & & 5 & 1 \end{array}$$

$$1(3,125m^5) - 5(6,250m^4)(2n^1) + 10(1,250m^3)(4n^2) - 10(250m^2)(8n^3) + 5(500m^1)(16n^4) - 1(32n^5)$$

$$3,125m^5 - 6,250m^4n^1 + 5,000m^3n^2 - 2,000m^2n^3 + 400m^1n^4 - 32n^5$$

Binomial Expansion

3 $(3x - 2y)^4$

$$1(3x)^4 - 4(3x)^3(2y)^1 + 6(3x)^2(2y)^2 - 4(3x)^1(2y)^3 + 1(2y)^4$$

$$\begin{array}{cccccc} & & & 1 & & \\ & & 1 & & 1 & \\ & 1 & & 2 & & 1 \\ 1 & 1 & 3 & 3 & 1 & \\ & 1 & 4 & 6 & 4 & 1 \end{array}$$

$$1(81x^4) - 4(27x^3)(2y^1) + 6(9x^2)(4y^2) - 4(3x^1)(8y^3) + 1(16y^4)$$

$$81x^4 - 216x^3y^1 + 216x^2y^2 - 96x^1y^3 + 16y^4$$

4 $(5m - 2n)^5$

$$1(5m)^5 - 5(5m)^4(2n)^1 + 10(5m)^3(2n)^2 - 10(5m)^2(2n)^3 + 5(5m)^1(2n)^4 - 1(2n)^5$$

$$\begin{array}{cccccc} & & & & 1 & \\ & & & 1 & & 1 \\ & & 1 & & 2 & & 1 \\ & 1 & & 3 & & 3 & & 1 \\ 1 & 1 & 4 & 6 & 4 & 1 & \\ & 1 & 5 & 10 & 10 & 5 & 1 \end{array}$$

$$1(3,125m^5) - 5(625m^4)(2n^1) + 10(125m^3)(4n^2) - 10(25m^2)(8n^3) + 5(5m^1)(16n^4) - 1(32n^5)$$

$$3,125m^5 - 6,250m^4n^1 + 5,000m^3n^2 - 2,000m^2n^3 + 400m^1n^4 - 32n^5$$

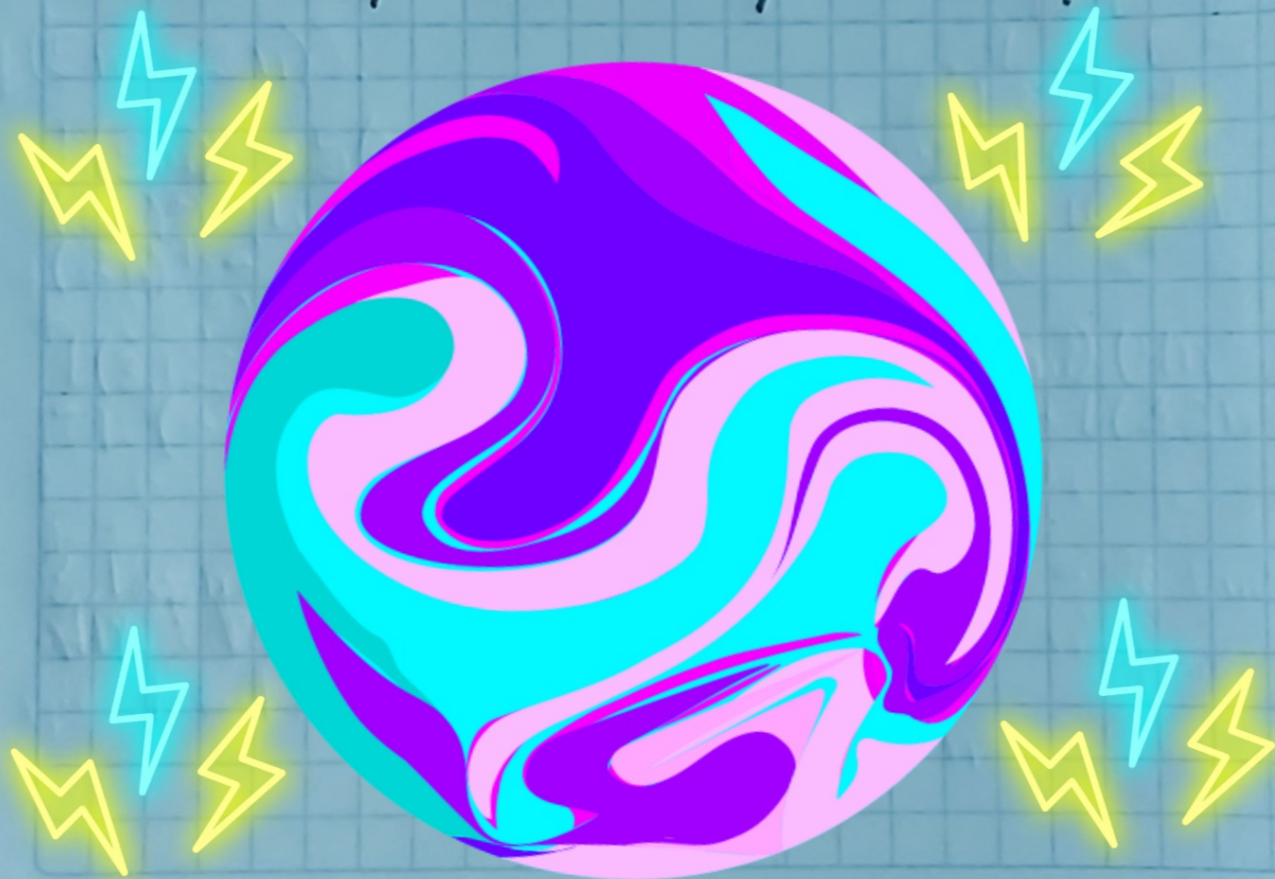
5 $(2x^3 - 3y^4)^6$

$$1(2x^3)^6 - 6(2x^3)^5(3y^4)^1 + 15(2x^3)^4(3y^4)^2 - 20(2x^3)^3(3y^4)^3 + 15(2x^3)^2(3y^4)^4 - 6(2x^3)^1(3y^4)^5 + 1(3y^4)^6$$

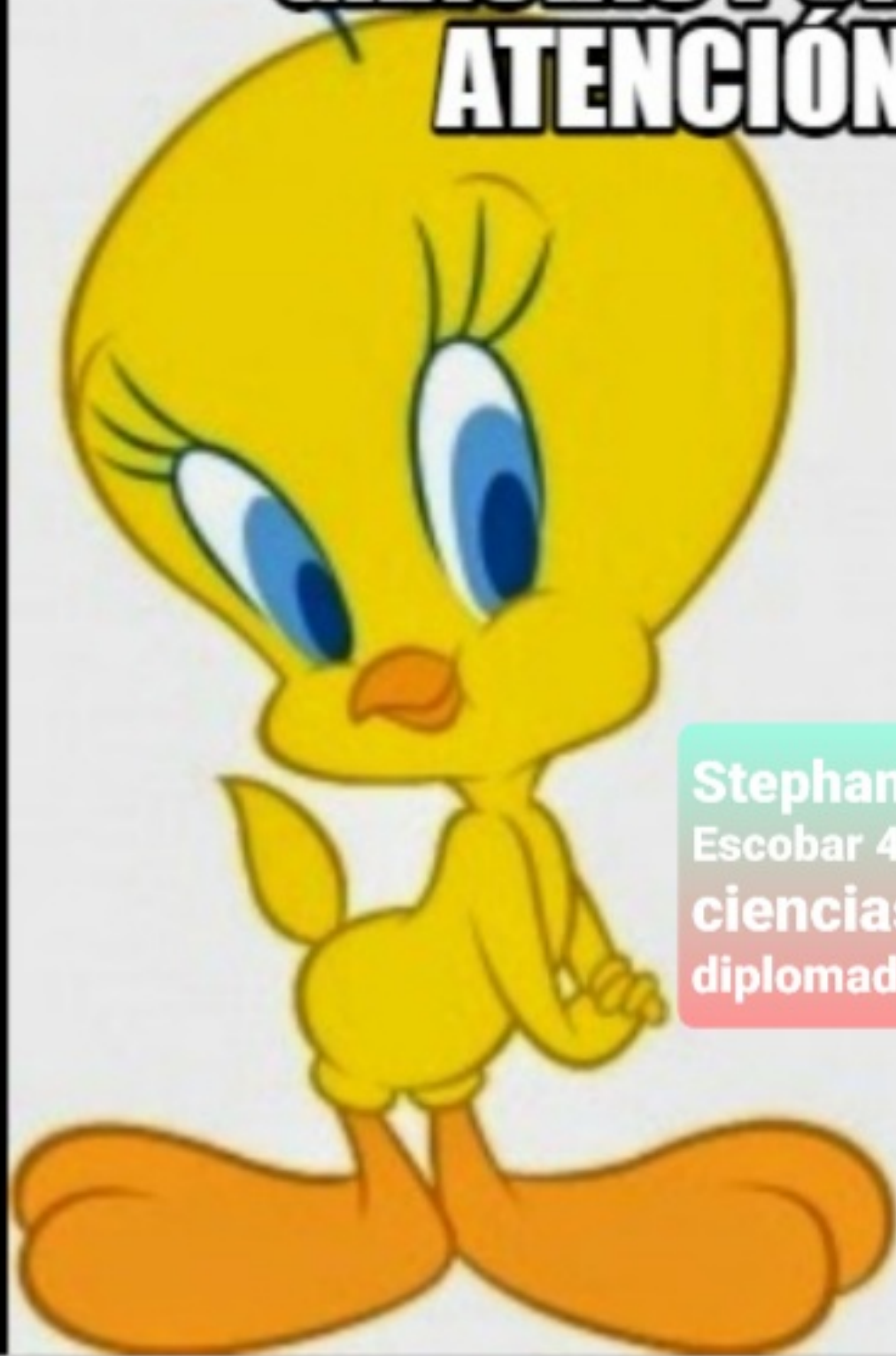
$$\begin{array}{ccccccc} & & & & 1 & & \\ & & & & 1 & 1 & \\ & & & & 1 & 2 & 1 \\ & & & & 1 & 3 & 3 & 1 \\ & & & & 1 & 4 & 6 & 4 & 1 \\ & & & & 1 & 5 & 10 & 10 & 5 & 1 \\ & & & & 1 & 6 & 15 & 20 & 15 & 6 & 1 \end{array}$$

$$1(64x^{18}) - 6(32x^{15})(3y^4) + 15(16x^{12})(9y^8) - 20(8x^9)(27y^{12}) + 15(4x^6)(81y^{16}) - 6(2x^3)(243y^{20}) + 1(729y^{24})$$

$$64x^{18} - 576x^{15}y^4 + 2,160x^{12}y^8 - 4,320x^9y^{12} + 4,860x^6y^{16} - 2,916x^3y^{20} + 729y^{24}$$



**GRACIAS POR SU
ATENCIÓN**



Stephany Paola Garcia
Escobar 4to bachillerato en
ciencias y letras con
diplomado en medicina 🤖