

Belen Del Refugio Gallo perez

Potencias

11 Julio 25

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Potencias	Base	Exponente	Multiplicación	Valor
5^2	5	2	5×5	25
5^2	5	2	5×5	25
8^4	8	4	$8 \times 8 \times 8 \times 8$	4,096
6^2	6	2	6×6	36
9^2	9	2	9×9	81
7^3	7	3	$7 \times 7 \times 7$	343
7^7	7	7	$7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7$	823,543
5^6	5	6	$5 \times 5 \times 5 \times 5 \times 5 \times 5$	15625

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$$3^2 = 3 \cdot 3 = 9$$

$$7^1 = 7$$

$$5^5 = 5 \cdot 5 \cdot 5 = 125$$

$$8^4 = 8 \cdot 8 \cdot 8 \cdot 8 = 4096$$

A) $2^5 = 2 \cdot 2 = 4$

B) $(-3)^2 = 3 \cdot 3 = -9$

C) $5^0 = 0$

D) $(-3)^3 = 3 \cdot 3 \cdot 3 = -27$

E) $9^2 = 9 \cdot 9 = 81$

F) $-2^2 = 2 \cdot 2 = -4$

G) $6^3 = 6 \cdot 6 \cdot 6 = 216$

H) $-2^3 = 2 \cdot 2 \cdot 2 = -8$

I) $0^5 = 0$

J) $(-1)^2 = 1 \cdot 1 = -1$

K) $3^4 = 3 \cdot 3 \cdot 3 \cdot 3 = 81$

L) $(-1)^3 = 1 \cdot 1 \cdot 1 = -1$

M) $1^7 = 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 = 1$

N) $(-4)^0 = -0$

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potencias

11 Julio 28

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$$a) \frac{3^7}{3^5} = 3^2$$

$$b) \frac{3^6}{4^4} = 3^5 = 3^{5-4} = 3^1$$

$$c) \frac{2^{12}}{2^8} = 2^{12-8} = 2^4 = 2 \cdot 2 \cdot 2 \cdot 2 = 16$$

$$d) \frac{7^{25}}{7^{15}} = 7^{25-15} = 7^{10} = 7 \cdot 7 = 282,475,2$$

$$e) \frac{5^{10}}{5^7} = 5^{10-7} = 5^3 = 5 \cdot 5 \cdot 5 = 125$$

$$f) \frac{9^5}{9} = 9 \cdot 9 \cdot 9 \cdot 9 \cdot 9 = \frac{59,049}{9}$$

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POTENCIAS

71 Julio 25

$$A) 2^9 \cdot 2^3 = 2^{9+3} = 2^{12} = 2 \cdot 2 = 4,096$$

$$B) (5^4)^3 = (20)^3 = 20 \cdot 20 \cdot 20 = 8,000$$

$$C) -7^8 : 7^6 = \frac{-7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7}{7 \cdot 7 \cdot 7 \cdot 7 \cdot 7} = \frac{57,64,801}{117,649} = 49$$

$$D) (5^9)^2 = (45)^2 = 45 \cdot 45 = 2025$$

$$E) 3^{10} \cdot 3^6 = 3^{10+6} = 3^{16} = \frac{3 \cdot 3 \cdot 3}{43,046,721} = 73$$

$$F) 2^8 : 2 = 2^8 = 2 \cdot 2 = 256$$

$$G) \frac{5^{10}}{5^7} = 5^{10-7} = 5^3 = 5 \cdot 5 \cdot 5 = 125$$

$$H) 9^4 \cdot 9^3 = 9^{4+3} = 9^7 = 9 \cdot 9 \cdot 9 \cdot 9 \cdot 9 \cdot 9 = 4,782,969$$

$$I) 6^4 \cdot 6^0 = 6^{4+0} = 6^4 = 6 \cdot 6 \cdot 6 \cdot 6 = 1,296$$

$$J) \frac{4^{17}}{4^7} = 4^{17-7} = 4^{10} = 4 \cdot 4 = 1,048,576$$

$$K) (3^0)^2 = (24)^2 = 24 \cdot 24 = 576$$

$$L) 0^4 \cdot 0^7 = 0$$

Bolón del Refugio Gaita Pérez

11 julio 28



Potencias

$$1 \quad 8^5 \cdot 2^0 = (8:2)^5 = 4^5 \quad 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 = 1,024$$

$$2 \quad 15^6 \cdot (-3)^6 = (15:-3)^6 = (-5)^6 \quad 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 = -15625$$

$$3 \quad 21^2 \cdot 7^2 = (21:7)^2 = 3^2 \quad 3 \cdot 3 = 9$$

$$4 \quad \frac{6^7}{3^7} = \left(\frac{6}{3}\right)^7 = 2^7 \quad 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 = 128$$