

FICHA DE EJERCICIOS II - POTENCIAS-

1. Expresa como única potencia.

$$\triangleright 5^4 \cdot 5^2 =$$

$$\triangleright 7^3 \cdot 7^2 =$$

$$\triangleright 3^7 \cdot 3 =$$

$$\triangleright 8^5 \cdot 8^4 =$$

$$\triangleright 2^5 \cdot 2 =$$

$$\triangleright 3^9 \cdot 3^7 =$$

$$\triangleright 2^{10} \cdot 2^{13} =$$

$$\triangleright 8 \cdot 8^{45} =$$

$$\triangleright 2^3 \cdot 2^5 \cdot 2^2 =$$

$$\triangleright 7^2 \cdot 7^3 \cdot 7^4 =$$

$$\triangleright 3^2 \cdot 3 \cdot 3^4 =$$

2. Expresa como única potencia.

$$\triangleright 5^8 : 5^2 =$$

$$\triangleright 7^3 : 7^0 =$$

$$\triangleright 3^6 : 3 =$$

$$\triangleright 8^5 : 8^2 =$$

$$\triangleright 1^9 : 1^4 =$$

$$\triangleright 2^5 : 2 =$$

$$\triangleright 3^9 : 3^7 =$$

$$\triangleright 2^{57} : 2^{10} =$$

$$\triangleright 8^5 : 8^4 =$$

$$\triangleright \frac{3^7}{3^5} =$$

$$\triangleright \frac{2^{12}}{2^8} =$$

$$\triangleright \frac{9^5}{9} =$$

$$\triangleright \frac{5^{10}}{5^7} =$$

$$\triangleright \frac{7^{25}}{7^{15}} =$$

$$\triangleright \frac{3^5}{3^4} =$$

3. Expresa como única potencia.

$$\triangleright (7^2)^3 =$$

$$\triangleright (3^9)^0 =$$

$$\triangleright (5^4)^3 =$$

$$\triangleright (6^3)^9 =$$

$$\triangleright (2^5)^3 =$$

$$\triangleright [(7^4)^5]^3 =$$

$$\triangleright (9^7)^2 =$$

$$\triangleright [(4^2)^5]^9 =$$

$$\triangleright (4^8)^5 =$$

$$\triangleright [(5^3)^2]^8 =$$

$$\triangleright (1^4)^2 =$$

$$\triangleright [(2^4)^0]^6 =$$

4. Expresa como única potencia.

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

$$\triangleright \frac{5^{10}}{5^7} =$$

$$\triangleright (5^4)^3 =$$

$$\triangleright 9^4 \cdot 9^3 =$$

$$\triangleright 7^8 : 7^6 =$$

$$\triangleright 6^4 \times 6^0 =$$

$$\triangleright (5^9)^2 =$$

$$\triangleright \frac{4^{17}}{4^7} =$$

$$\triangleright 3^{10} : 3^6 =$$

$$\triangleright 2^8 : 2 =$$

$$\triangleright (3^8)^2 =$$

5. Expresa como única potencia y luego calcula: $2^3 \cdot 2^2 = 2^5 = 32$

$$\triangleright 3^8 : 3^6 =$$

$$\triangleright \frac{9^6}{9^4} =$$

$$\triangleright \frac{5^9}{5^7} =$$

$$\triangleright 3 \times 3^3 =$$

$$\triangleright 10^4 \times 10^2 =$$

$$\triangleright 2^3 \cdot 2 =$$

$$\triangleright \frac{1^{17}}{1^7} =$$

$$\triangleright 3^{11} : 3^9 =$$

$$\triangleright (3^8)^2 =$$

$$\triangleright (2^2)^3 =$$

$$\triangleright 0^4 \times 0^7 =$$

6. Expresa como única potencia.

➤ $(2^5 \cdot 2^3) : 2^4 =$

➤ $\frac{7^{10} \cdot 7^4}{7^6} =$

➤ $(5^2)^3 \cdot 5^3 =$

➤ $9^4 \cdot 9^3 \cdot (9^2)^7 =$

➤ $6^3 \cdot 6^8 : 6^6 =$

➤ $\frac{4^{20} : 4^{14}}{4^3 \cdot 4^2} =$

➤ $(3^9)^2 : (3^2)^5 =$

➤ $(3^8 \cdot 3^2)^5 =$

➤ $3^5 \cdot (3^{10} : 3^8) =$

7. Expresa como única potencia.

➤ $5^4 \cdot 3^4 =$

➤ $7^3 \times 2^3 =$

➤ $3^7 \cdot (-8)^7 =$

➤ $8^5 \cdot 4^5 =$

➤ $e) 1^6 \times 7^6 =$

➤ $(-2)^5 \cdot 3^5 =$

➤ $3^9 \cdot (-4)^9 =$

➤ $9^{10} \cdot 2^{10} =$

➤ $(-8)^4 \times (-6)^4 =$

➤ $2^3 \cdot 5^3 \cdot 7^3 =$

➤ $4^2 \cdot (-5)^2 \cdot 3^2 =$

➤ $(-3)^5 \cdot (-2)^5 \cdot (-4)^5 =$

8. Expresa como única potencia.

➤ $8^5 : 2^5 =$

➤ $21^2 : 7^2 =$

➤ $15^6 : (-3)^6 =$

➤ $\frac{6^7}{3^7} = 2^7$

➤ $8^9 : 1^9 =$

➤ $24^5 : 2^5 =$

➤ $(-20)^9 : 5^9 =$

➤ $(-30)^7 : (-6)^7 =$

➤ $8^4 : (-4)^4 =$

➤ $\frac{9^5}{3^5} =$

➤ $\frac{10^8}{2^8} =$

➤ $\frac{(-36)^5}{9^5} =$

➤ $\frac{5^{10}}{1^{10}} =$

➤ $\frac{(-14)^{25}}{(-7)^{25}} =$

➤ $\frac{30^4}{(-3)^4} =$

➤ $\frac{49^8}{7^8} =$