

Exercices Puissances

Exercice 1

Calcule chaque expression :

$$\begin{array}{lll} 2^1 = & 3^1 = & 2^0 = \\ 3^2 = & 0^2 = & 5^2 = \\ 17^0 = & 3^4 = & 4^3 = \\ (-5)^2 = & 1,2^2 = & 0,2^3 = \end{array}$$

Exercice 3

Calcule chaque expression :

$$\begin{array}{ll} (-2)^4 = & -2^4 = \\ -5^3 = & -3^2 = \\ -5^0 = & (-15)^2 = \\ -13^2 = & (-13)^2 = \end{array}$$

Exercice 2

Calcule chaque expression :

$$\begin{array}{lll} (-2)^2 = & (-3)^2 = & (-4)^2 = \\ (-1)^4 = & (-1)^5 = & (-15)^2 = \\ (-5)^1 = & (-15)^1 = & (-20)^1 = \end{array}$$

Exercice 4

Calcule chaque expression :

$$\left(\frac{2}{3}\right)^2 = \quad \left(\frac{5}{2}\right)^2 = \quad \frac{4^3}{5} =$$

Exercice 5

Écrivez sous forme d'une puissance de 10 :

- | | |
|-----------------------------|-------------------------------|
| a) 1 | b) 10 |
| c) 10 000 | d) 10 000 000 |
| e) $\frac{(10^{22})^2}{10}$ | f) $(10^2)^2 \times (10^2)^3$ |

Exercice bonus

Écrivez sous forme d'une puissance de 2, 3, 5, etc.

- | | |
|---------------------|---------------------------------|
| a) $2^4 \cdot 16^5$ | b) $\frac{2 \cdot 3^4}{9^2}$ |
| c) $(3^2)^3$ | d) $5^4 \cdot 25^7 \cdot 125^2$ |
| e) $2^4 \cdot 16^5$ | f) $\frac{2 \cdot 3^4}{9^2}$ |