

Auto-évaluation ex 2 page 105

Sésamath

Maths 1S



Soit n un nombre entier naturel. Compléter.

1 $25 \times 5^6 = 5^{\dots}$

2 $2^n \times 2 = 2^{\dots}$

3 $(4^n)^3 = 4^{\dots}$

4 $\frac{1}{3} \times 3^n = 3^{\dots}$

1 $25 \times 5^6 = 5^2 \times 5^6$

1 $25 \times 5^6 = 5^2 \times 5^6$
donc $25 \times 5^6 = 5^{2+6} = 5^8$

$$2 \quad 2^n \times 2 = 2^n \times 2^1,$$

2

$$2^n \times 2 = 2^n \times 2^1,$$
$$\text{donc } 2^n \times 2 = 2^{n+1}$$

$$3 \quad (4^n)^3 = 4^{n \times 3} = 4^{3n}$$

$$4 \quad \frac{1}{3} \times 3^n = 3^{-1} \times 3^n,$$

4 $\frac{1}{3} \times 3^n = 3^{-1} \times 3^n,$
donc $\frac{1}{3} \times 3^n = 3^{n-1}$