

### Correction de l'exercice 1 :

a)  $4^5 = 4 \times 4 \times 4 \times 4 \times 4 = 1024$

b)  $7^{-2} = \frac{1}{7^2} = \frac{1}{49} \simeq 0,0204$

c)  $(-6)^3 = (-6) \times (-6) \times (-6) = -216$

d)  $10^{-9} = \underbrace{0,0000000001}_{9 \text{ zéros}}$

e)  $-3^6 = -3 \times 3 \times 3 \times 3 \times 3 \times 3 = -729$

f)  $(-8)^{-4} = \frac{1}{(-8)^4} = \frac{1}{(-8) \times (-8) \times (-8) \times (-8)} = \frac{1}{4096} \simeq 0,00024$

### Correction de l'exercice 2 :

a)  $10^6 = 1 \underbrace{000\ 000}_{6 \text{ zéros}}$

b)  $(-11)^3 = (-11) \times (-11) \times (-11) = -1331$

c)  $9^{-2} = \frac{1}{9^2} = \frac{1}{9 \times 9} = \frac{1}{81} \simeq 0,0123$

d)  $(-12)^{-2} = \frac{1}{(-12)^2} = \frac{1}{(-12) \times (-12)} = \frac{1}{144} \simeq 0,00694$

e)  $-2^{-5} = \frac{1}{-2^5} = \frac{1}{-2 \times 2 \times 2 \times 2 \times 2} = \frac{1}{-32} = -0,03125$

f)  $1270^0 = 1$