

Ejercicios 14/10/22

Pasa este numero de coma flotante simple a decimal

- 01000001101101101000000000000000

1. Valores de la coma flotante simple

Signo (S) → 0

Exponente (E) → 10000011

$$1*2^0+1*2^1+1*2^7=131$$

Mantisa (M) → 1.011011010000000000000000

$$1*2^0+1*2^{-2}+1*2^{-3}+1*2^{-5}+1*2^{-6}+1*2^{-8}=1.42578125$$

2. Formula

$$N = (-1)^S * 2^{E-127} * M$$

$$N = (-1)^0 * 2^{131-127} * 1.42578125$$

$$N = 1 * 2^4 * 1.42578125$$

$$N = 17.42578125$$

Resultado final → **17.42578125**