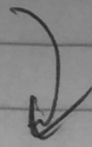


Tarea resolver



NO

Energía E [$\text{kg} \frac{\text{m}^2}{\text{s}^2}$]

Densidad ρ [kg/m^3]

tiempo t [s]

Radio R [m]

$$E = E(\rho, t, R) \rightarrow E \propto \rho^a t^b R^c$$

Energía E [$\text{kg} \frac{\text{m}^2}{\text{s}^2}$]

FUNCION

$$E \propto \rho^a t^b R^c$$

Densidad ρ [kg/m^3]

$$E = \left[\text{m} \frac{\text{L}^2}{\text{T}^2} \right]$$

Tiempo T [s]

$$\rho = [M/L^3]$$

Radio R [m]

$$T = [T]$$
$$R = [L]$$

$$\text{m} \frac{\text{L}^2}{\text{T}^2} = [M/L^3]^a \cdot [T]^b \cdot [L]^c$$

$$\text{m} \frac{\text{L}^2}{\text{T}^2} = [M \cdot L^{-3}]^a \cdot [T]^b \cdot [L]^c$$

$$M \frac{\text{L}^2}{\text{T}^2} = M^a \cdot L^{-3a} \cdot T^b \cdot L^c$$

$$M \frac{\text{L}^2}{\text{T}^2} = M^a \cdot L^{-3a+c} \cdot T^b$$

$$M^1 = M^a$$

$$1 = a$$

$$L^2 = L^{-3a+c}$$

$$2 = -3a + c$$

$$T^{-2} = T^b$$

$$-2 = b$$

$$E \propto (\rho^a, T^b, R^c)$$



$$E(\rho^1, T^{-2}, R^5) //$$