

Pregunta de TAYLOR

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1º Ancla

$$\text{Energía (E)} = \left[\text{Kg} \cdot \frac{\text{m}^2}{\text{s}^2} \right] \rightarrow E = \left[M \cdot \frac{L^2}{T^2} \right]$$

$$\text{Densidad (P)} = \left[\text{Kg} \cdot \text{l} \cdot \text{m}^3 \right] \rightarrow P = \left[M/L^3 \right]$$

$$\text{Tiempo (t)} = [s] \rightarrow \tau = [t]$$

$$\text{Radio (r)} = [m] \rightarrow R = [L]$$

$$E \propto P^a \cdot T^b \cdot R^c$$

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

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

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

$$M^1 = M^a \quad L^2 = L^{-3a+c}$$

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

$$a = 1$$

$$c = 5$$

$$b = -2$$

$$E(P, T, R) \rightarrow E(P^1, T^{-2}, R^5)$$

$$E \propto P^1 T^{-2} R^5$$

a	b	c
1	-2	5

- Dimensiones: $M = \text{Kg, g, L, etc...}$ [Masa]

$T = \text{h, s, min}$ [Tiempo]

$L = \text{km, m, cm}$ [Longitud]