

07-06

N4

Dano:

$$V = 20 \text{ m}^3$$

$$V_1 = 3 \text{ m}^3 = 3 \text{ cm}^3$$

$$\rho_{\text{gas}} = 1,2 \frac{\text{kg}}{\text{m}^3}$$

$$\rho_{\text{gas}} = 1 \frac{\text{g}}{\text{cm}^3}$$

$$\rho_{\text{r}} = ?$$

$$m_{\text{gas}} = V_1 \rho_{\text{gas}} = 3 \text{ cm}^3 \cdot 1 \frac{\text{g}}{\text{cm}^3} = 3 \text{ g}$$

$$m_{\text{gas}} = 1,2 \frac{\text{kg}}{\text{m}^3} \cdot 20 \cdot 10^{-3} \text{ m}^3 = 24 \text{ g}$$

$$\rho_{\text{r}} = \frac{m_{\text{gas}} + m_{\text{gas}}}{V}$$

$$\rho_{\text{r}} = \frac{3 \text{ g} + 24 \text{ g}}{20 \text{ m}^3} = 1,35 \frac{\text{g}}{\text{m}^3} = 1,35 \frac{\text{kg}}{\text{m}^3}$$

$$\text{Ombem: } 1,35 \frac{\text{kg}}{\text{m}^3}$$

105

Dano:

$$v_{\text{ben}} = 5 \frac{\text{m}}{\text{s}}$$

$$L = 240 \text{ m}$$

$$t = 20 \text{ s}$$

$$v_{\text{moy}} = ?$$

$$t = \frac{L}{u - v} \Rightarrow$$

$$u = \frac{L + vt}{t}$$

$$u = \frac{240 \text{ m} + 100 \text{ m}}{20 \text{ s}} = 17 \frac{\text{m}}{\text{s}}$$

$$\text{Ombem: } 17 \frac{\text{m}}{\text{s}}$$

105

N1 05

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