

N1.

Dano:

$$Q = 1 \text{ cel/c}^2$$

$$R_1 = 3 \text{ cel}$$

$$n_1 = 30$$

$$n_2 = 15$$

$$R_2 = 1,5 \text{ cel}$$

$$Q = ?$$

cu

Perencanaan.

$$1. Q_1 = \frac{v^2}{R_1} = \frac{1 \text{ cel/c}^2}{3 \text{ cel}} = \frac{v^2}{3 \text{ cel}}$$

$$2. Q_2 = \frac{v^2}{R_2} = \frac{v^2}{1,5 \text{ cel}}$$

$$\text{Ditemu: } \sqrt{3 \text{ cel/c}^2} = \sqrt{0,003 \text{ cel/c}^2}$$

$$N2. \frac{\sqrt{0,003 \text{ cel/c}^2}}{0,015 \text{ cel}}$$

Dano:

$$M = 1 \text{ m.}$$

$$L = 2 \text{ m}$$

$$k = 50 \text{ N/m}$$

$$L = 1 \text{ cm}$$

$$m = 0,5 \text{ m.}$$

$$h = ?$$

Perencanaan

$$F_{\text{gmp}} = K \cdot L$$

$$F_{\text{gmp}} = 50 \text{ N/m} \cdot 2 \text{ m} \cdot 100 \text{ H.}$$

$$F_{\text{gmp}} = K_2 \cdot L$$

$$100 \text{ H} = K_2 \cdot 1 \text{ m}$$

$$K_2 = 100 \text{ N/m}$$

$$h =$$

N3.

Dano:

$$M = 15 \text{ T} = 15000000 \text{ m.}$$

$$V_k = 10 \text{ m}^3$$

$$m_1 = 50 \text{ m.}$$

$$P_{\text{bagas}} = 0,05 \text{ m/c}^3$$

$$H = 10 \text{ m}$$

$$P_2 = 1000 \text{ m/c}^3$$

$$H = 700 \text{ m}$$

$$Q = 10 \text{ cel/c}^2$$

$$\Delta V = 2,7 \text{ m}^3$$

Perencanaan.

$$h = \frac{V}{m} \quad \text{--- } h = V/m$$

$$V = P/(m_2 - m_1)$$

$$1. H_{\text{max}} = ?$$

$$2. h_x = ?$$

N4.

Dado:

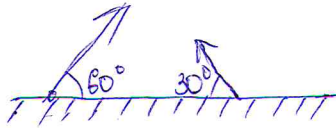
$$\alpha = 60^\circ$$

$$v_1 = 12 \text{ m/s}$$

$$\beta = 30^\circ$$

$$v_2 = ?$$

Permanece



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$$1) x = v_1 \cdot \cos \alpha / 60^\circ$$

$$x = 12 \cdot \frac{1}{2} = 6$$

$$2) x = v_2 \cdot \cos \beta / 30^\circ$$

$$6 = v_2 \cdot \frac{\sqrt{3}}{2}$$

$$v_2 = 6 \cdot \frac{2}{\sqrt{3}} = 6 \cdot \frac{2}{\sqrt{3}} = \frac{12}{\sqrt{3}}$$

$$\text{Ombem: } \frac{12\sqrt{3}}{\sqrt{3}} \text{ m/s}$$

N5.

Umoa : 18

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