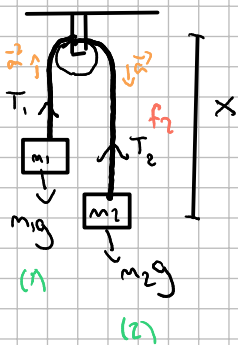


Es. Mág. Atwood

(S. 26A)  
y  
x

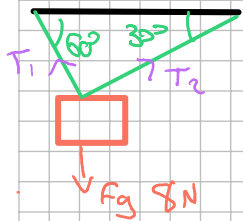


(2)  
Como está en equilibrio,  $F_1 = F_2: [m_2g - T_2 = m_2a]$

(1)  
 $[m_1g - T_1 = m_1a]$

peso 2 tensión peso 1

CUADRO



El  $\Sigma T$  debe resultar en un vector con mismo módulo y dirección que  $F_g$ .



$$\begin{cases} x: 0 = T_1 \cos 60^\circ + T_2 \cos 30^\circ \rightarrow T_1 = -\frac{T_2 \sqrt{3}}{2} = -T_2 \sqrt{3} \\ y: -8 = T_1 \sin 60^\circ + T_2 \sin 30^\circ \end{cases}$$

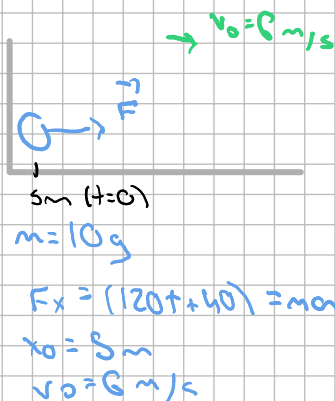
$$\Rightarrow -T_2 \sqrt{3} \sin 60^\circ + T_2 \sin 30^\circ + 8 = 0$$

$$-T_2 \sqrt{3} \cdot \frac{\sqrt{3}}{2} + T_2 \frac{1}{2} + 8 = 0 \Rightarrow \frac{T_2 - 2T_2 \sqrt{3} + 16}{2} = 0$$

$$\Rightarrow T_2 - 2T_2 \sqrt{3} + 16 = 0 \Rightarrow T_2 = \frac{16}{\sqrt{3}} \text{ N}$$

$$T_1 = \frac{-16}{\sqrt{3}} \sqrt{3} \Rightarrow T_1 = -16 \text{ N}$$

Partícula



$$F_y = 0$$

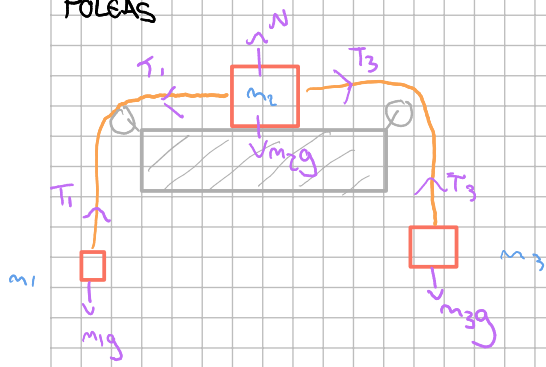
$$F_x = ma_x$$

$$a_x = \frac{dv_x}{dt} \Rightarrow$$

$$\int_0^t a_x dt = \int_{v_0}^{v_x} dv_x$$

$$v_x = \frac{dx}{dt} \Rightarrow \int_0^t v_x dt = \int_{x_0}^{x} dx$$

POLEAS



$$F = ma$$

$$\boxed{m_1}$$

$$-m_1g + T = m_1a$$

$$\boxed{m_2}$$

$$y: -m_2g + N = 0$$

$$x: T_3 = T_1 = m_2a$$

$$\boxed{m_3}$$

$$-T_3 + m_3g = m_3a$$

$$F = ma$$

$$-m_1g + T = m_1a$$