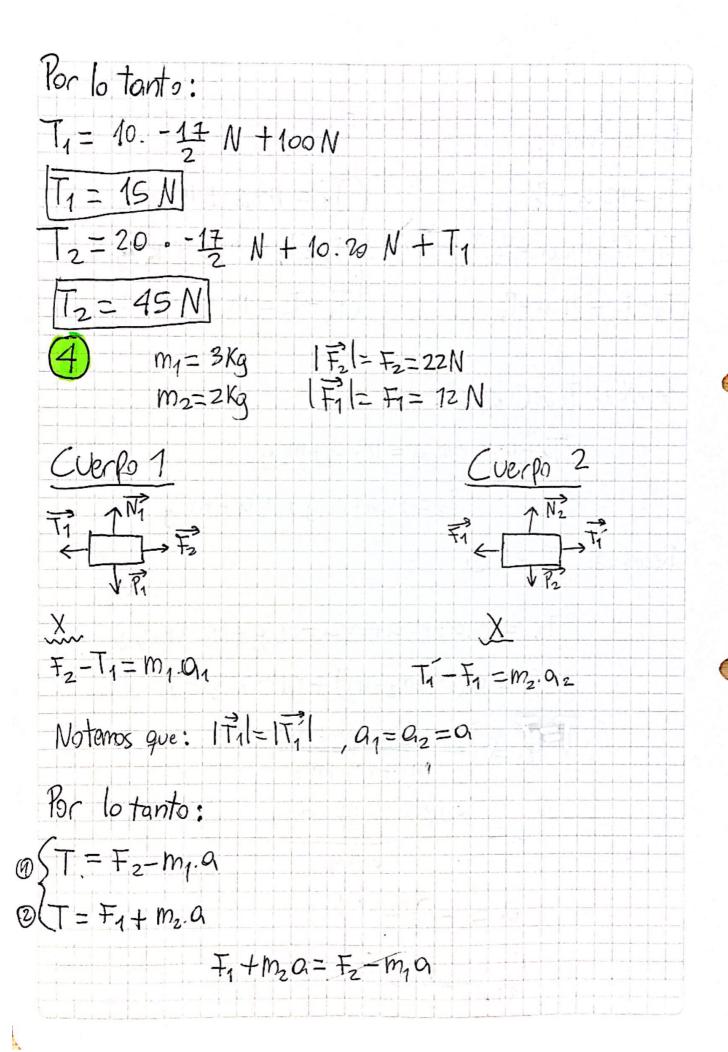
GUIA5

| 3 Por Notación | Fi = Fi | |
|---|--|--|
| Cuerpo 1 | Cuerpo Z | Cuerpo 3 |
| | $ \uparrow \downarrow \uparrow \downarrow$ | $\begin{array}{c c} \overrightarrow{I_2} & \uparrow \overrightarrow{N_3} \\ & & \downarrow \\ & \downarrow \\ & & \downarrow \\ & & \downarrow \\ &$ |
| X VP, | V P2 | √ <u>₹</u> |
| $T_1 = m_1 . O_1$ | $T_{z}-T_{1}=m_{z}\alpha_{z}$ | $T_3 - T_2 = m_3 \Omega_3$ |
| ¥ =0 | У | |
| $N_1 - P_1 = m_1, o_1 \times$ | $N_2 - P_2 = m_1 \alpha_X$ | $N_3 = P_3$ |
| $N_1 - P_1 = 0$ | N2-P2=0 | |
| $N_1 = P_1$ | N ₂ =P ₂ | |
| Notemos que: | $Q_1 = Q_2 = Q_3$ | |
| | 17/=17/ | |
| | $ T_2 = T_2 $ | |
| Por lo tanto: | | |
| $\mathfrak{O}\left(T_1 = m_1 \cdot \mathfrak{O}_1 \right)$ | | Ti de O en O: |
| 12-T1=m2.9 | 72-10 | $\Gamma_{1} = M_{2} + M_{1} $ |
| 3 T2= m3.0 | | 12=1120 +114.5 |

Remplato Tz en 3: Tz-mz.a-m, a= mz.a $-o_1(m_1+m_2+m_3)=-T_3$ a= T3 m1+m2+m3 $\alpha = \frac{90 \text{ kg} \cdot \frac{\text{mg}}{\text{s}^2}}{60 \text{ kg}}$ Q=골 말 Finalmente: (9) T1=M1.0 => T1=10kg. 3==> |T1=15N| 2) T2-T1=102.01=>T2-15N=20Kg.3=13=>|T2=45N| Cuerpo 2 To - Ti -Po=10.0 T3-T2-P3=120 Ti-Pi=mi.a Notemos que: |Til= |Til, |Til= |Til, P=mi.9, 9=10 52

for lo tanto: $T_1 = m_1 \alpha + P_4$ 11= m.a + m.g T2-T1=m2.a+P2 $T_2 - T_1 = m_2 \cdot a + m_2 \cdot g$ $T_3 - T_2 = m_3 q + m_3 g$ T3-T2=m,a+P3 Reemplazo Ti de Den 2: $T_1 - m_1 \cdot \alpha - m_1 \cdot q = m_2 \cdot \alpha + m_2 \cdot q$ Tz= m, a+m, g+m2.a+m3.q Reemplazo tz en 3 $T_3 = m_1.a + m_2.a + m_3.a + m_1.g + m_2.g + m_3.g$ $T_3 = a(m_1 + m_2 + m_3) + g(m_1 + m_2 + m_3)$ $a = \frac{T_3 - 9(m_1 + m_2 + m_3)}{m_1 + m_2 + m_3}$ 01= 90N - 10 m. 60 kg 60 kg $a = -\frac{510}{69} \frac{m}{c^2}$



| $m_1 o_1 + m_2 a = F_2 - F_1$ | $\Rightarrow \alpha = \frac{f_2 - f_7}{m_2 + m_1}$ $\alpha = \frac{10 \text{ kg} \cdot m}{s^2}$ |
|--|---|
| Finalmente: $T = 22N - 3 kg. 2 \frac{n}{5^2}$ | Skg $Q = Zm$ S^2 |
| T = 22N - 6N $T = 16N$ | |
| $\frac{9.cm}{s^2} = 1dyng$ | |
| 1///////////////////////////////////// | $\langle = \rangle \frac{10^{5} \text{ cm.g}}{5^{2}} = 1 \text{ N}$ |
| | |

