Subiectul A. MECANICĂ

Nr. item	Soluţie/Rezolvare
II.a.	$m_3 > (m_1 + m_2)(\sin\alpha + \mu \cdot \cos\alpha)$ Corpul 3 coboară
b.	$m_1 \cdot a = T_{12} - G_{1T} - F_{f1}$ $m_2 \cdot a = T_{23} - T_{12} - G_{2T} - F_{f2}$ $m_3 \cdot a = G_3 - T_{23}$ $G_t = m \cdot g \cdot \sin\alpha$ $F_f = \mu m \cdot g \cdot \cos\alpha$ $a = g\dfrac{m_3 - (m_1 + m_2)(\sin\alpha + \mu \cdot \cos\alpha)}{m_1 + m_2 + m_3}$ Rezultat final: $a \cong 0,4\dfrac{m}{s^2}$
c.	$T_{12} = m_1\left[a + g(\sin\alpha + \mu \cdot \cos\alpha)\right]$ Rezultat final: $T_{12} \cong 9,5N$
d.	$T_{23} = m_3(g - a)$ Rezultat final: $T_{12} \cong 28,8N$