Subiectul A. MECANICĂ

Nr. item	Soluţie/Rezolvare
II.a.	$G_p = m \cdot g \cdot \sin \alpha$ $G_n = m \cdot g \cdot \cos \alpha$ Rezultat final: $G_p = 10N$ $G_n = 17,3N$
b.	$F_n = F \cdot \sin \theta$ $N = 0$ $F = \dfrac{G \cdot \cos \alpha}{\sin \theta}$ Rezultat final: $F \cong 24,5N$
c.	$0 = F_p - G_p - F_f$ $F_f = \mu \cdot N$ $F = m \cdot g \dfrac{\left(\sin \alpha + \mu \cdot \cos \alpha \right)}{\cos \theta + \mu \cdot \sin \theta}$ Rezultat final: $F \cong 15,9N$
d.	$m \cdot a = G_p - F_p - F_f$ $F = \dfrac{m \left[g \left(\sin \alpha - \mu \cdot \cos \alpha \right) - a \right]}{\cos \theta - \mu \cdot \sin \theta}$ Rezultat final: $F \cong 8N$