Subjectul A. MECANICĂ

Nr. item	Soluţie/Rezolvare
II.a.	
	$N = m \cdot g$
	Rezultat final: $ \overrightarrow{N} = 5100N$
b.	
	$\frac{F}{S_0} = E \frac{\Delta I}{I_0}$
	$\Delta I_u = \frac{\mu \cdot m \cdot g \cdot I_0}{S_0 \cdot E}$
	$\Delta I_u = \frac{\left(a + \mu \cdot g\right)I_0}{S_0 \cdot E}$
	$\frac{\Delta I_u}{\Delta I_a} = \frac{\mu \cdot g}{a + \mu \cdot g}$
	Rezultat final: $\frac{\Delta I_u}{\Delta I_a} \cong 0,46$
C.	
	$\frac{\Delta l_u}{l_0} = \frac{\mu \cdot m \cdot g}{S_0 \cdot E}$
	$l_0 \qquad S_0 \cdot E$
	Rezultat final: $\frac{\Delta l_u}{l_0} \cong 3,18\cdot 10^{-6}$
d.	
	$F = \sqrt{F_f^2 + N^2}$ $F = G\sqrt{1 + \mu^2}$
	$F = G\sqrt{1 + \mu^2}$
	Rezultat final: $F \cong 5216N$