Subiectul D. OPTICA

Nr. item	Soluţie/Rezolvare
III.a.	$\Delta\nu = c\left(\frac{1}{\lambda_1} - \frac{1}{\lambda_2}\right)$ Rezultat final: $\Delta\nu = 8{,}33 \cdot 10^{13}\,Hz$
b.	$\frac{hc}{\lambda_1} = L + eU_1$ $\frac{hc}{\lambda_2} = L + eU_2$ $h = \frac{e(U_1 - U_2)}{c\left(\frac{1}{\lambda_1} - \frac{1}{\lambda_2}\right)}$ Rezultat final: $h = 6{,}62 \cdot 10^{-34}\,Js$
c.	$L = \frac{hc}{\lambda_1} - eU_1$
d.	Rezultat final: $L = 3{,}31 \cdot 10^{-19}\,J$
	$V_1 = \sqrt{\frac{2eU_1}{m}}$ Rezultat final: $v_1 = 6 \cdot 10^5\,m/s$