Subiectul D. OPTICĂ

Nr. item	Soluţie/Rezolvare
III. a.	$L_{ext} = h\nu_0$ $\lambda_0 = \frac{c}{\nu_0}$ Rezultat final: $\lambda_0 \cong 334{,}62nm$
b.	$\frac{hc}{\lambda} = L_{ext} + \frac{m_e v^2}{2}$ $v = \sqrt{\frac{2\left(\frac{hc}{\lambda} - L_{ext}\right)}{m_e}}$ Rezultat final: $v \cong 6{,}53 \cdot 10^5\ m/s$
c.	$U_s = \frac{m_e v^2}{2e}$ Rezultat final: $U_s \cong 1{,}21V$
d.	$v_1 = \sqrt{\frac{2\left(\frac{hc}{\lambda_1} - L_{ext}\right)}{m_e}}$ $\frac{v_1}{v} = \sqrt{\frac{\frac{hc}{\lambda_1} - L_{ext}}{\frac{hc}{\lambda} - L_{ext}}}$ Rezultat final: $\frac{v_1}{v} = 0{,}56$