Subjectul D. OPTICĂ

Nr. item	Soluţie/Rezolvare
III. a.	$E_c = \frac{m_e v^2}{2}$
	Rezultat final: $E_c = 1.13 \cdot 10^{-19} J$
b.	$L_{\text{ext}} = \frac{hc}{\lambda} - E_c$
	Rezultat final: $L_{ext} = 2,83 \cdot 10^{-19} J$
C.	$v_0 = \frac{L_{ext}}{h}$
	Rezultat final: $v_0 = 4.3 \cdot 10^{14} Hz$
d.	$\frac{m_{\rm e}v'^2}{2} = hv' - L_{\rm ext}$ $v' = 2v_{\rm o}$
	$\frac{m_e v'^2}{2} = h v' - L_{ext}$ $v' = 2v_0$ $v' = \sqrt{\frac{2(2hv_0 - L_{ext})}{m_e}}$
	Rezultat final: $v' = 7.9 \cdot 10^5 \text{ m/s}$