Subjectul A. MECANICĂ

Nr. item	Soluţie/Rezolvare
III.a.	
	$L_{Frez} = \Delta E_c$
	$L_{Frez} = \Delta E_c$ $(F - F_r) \cdot d = \frac{m_{total} \cdot v^2}{2}$ $v = \sqrt{2(F - F_r) \cdot d / m_{total}}$
	$V = \sqrt{2(F - F_r) \cdot d / m}_{total}$
	Rezultat final: $V_1 = 1$ m/s
b.	$L = F \cdot d \cdot \cos 0^{\circ}$
	L = 180 <i>J</i>
C.	$(-F_r) \cdot d = -\frac{m_{total} \cdot v^2}{2}$ $d = \frac{m_{total} \cdot v^2}{2F_r}$
	$d = \frac{m_{total} \cdot v^2}{2F_r}$
	Rezultat final: $d = 1,25m$
d.	
	$v = \sqrt{2Fd/m_{total}}$
	Rezultat final: $v = 0.9m/s$