$$0A70S$$

$$M = SRg$$

$$P = 20 N$$

$$W_{0-40} = \int F \cdot dx = \Delta K$$

$$V(x=4\pi) = 388$$
 $W_{0-4} = \frac{1}{L}\pi V^{2} = 5V = \sqrt{\frac{2.30\pi}{m}} = \frac{3.4641}{m} = \frac{3.4641}{m}$

$$W_{6-8} = -\frac{SN}{L} \cdot Ln = -\frac{SJ}{L}$$

$$W = \Delta k = -5 J = \frac{1}{2} (m_c + m_b) V_f^2 - \frac{1}{2} (m_c + m_b) V_{c-b}^2$$

$$V_f = \overline{(2(-57) + V_{c-6})} = \overline{(2.15 m/s)}$$