Solvaiss Pucial

$$v_{\pm} = \frac{x}{t} = \frac{3m}{3s} = 1 m/s \ u$$
) velocioled

2m (1m/s)

Por encigius

$$R = \frac{1}{2} \frac{V^2}{g} = \frac{2}{9} \approx 0.2 \text{ m}.$$

PROBLEMA 2

$$\frac{1}{2} u x^2 = mgR + \frac{1}{2} my^2 - N - mg = -\frac{mk^2}{R}$$

$$\frac{1}{2} u x^2 = 2myn + \frac{1}{2} mgn$$

$$\sqrt{8} = mgn$$

$$\frac{1}{2}Nx^2 = \frac{5}{2}gR \qquad \qquad X = \frac{3gR}{K} = \sqrt{\frac{5gR}{K}}$$

b)
$$\frac{1}{2} \times \times^2 = \frac{1}{2} \left(\frac{1}{N} \right) \left(\frac{39n}{N} \right) = \frac{1}{2} \frac{5 \cdot 10 \cdot 5}{10 \cdot 1} = 12.5 \text{ J}$$









$$m_1(A) + m_2(-1) = 5 V_{+x}$$

$$\nu_{2}$$
 $2 \log (3) + 3(2) = \nu_{+\nu}(5)$

C)



$$E = \frac{1}{2}(2)25 + \frac{1}{2}(3)5 = 25 + 7.5 = 32.57$$

$$E_{+} = \frac{1}{2}(5)(1 + \frac{144}{25}) = \frac{1}{2}5 - (\frac{169}{25}) = \frac{169}{10} = \frac{169$$