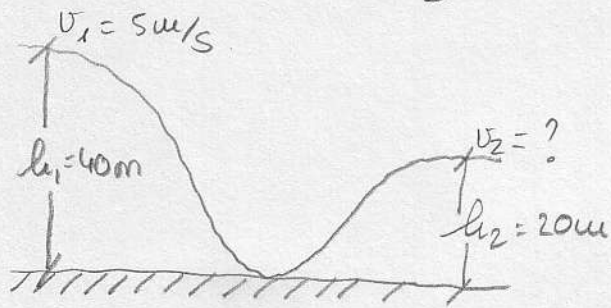


Actividad n^o. 7. pag 19. (+f)



$$E_{m1} = E_{m2}$$

$$E_{c1} + E_{p1} = E_{c2} + E_{p2}$$

Datos

$$h_1 = 40 \text{ m}$$

$$v_1 = 5 \text{ m/s}$$

$$h_2 = 20 \text{ m}$$

$$v_2 = ?$$

$$E_{c2} = ?$$

$$E_{c2} = E_{c1} + E_{p1} - E_{p2}$$

$$E_{c2} = \frac{1}{2} m v_1^2 + m g h_1 - m g h_2$$

$$E_{c2} = \frac{1}{2} 10000 \cdot 5^2 + 10000 \cdot 9.8 \cdot 40 - 10000 \cdot 9.8 \cdot 20$$

$$E_{c2} = 12500 + 392000 - 196000 = 208.500 \text{ J}$$

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