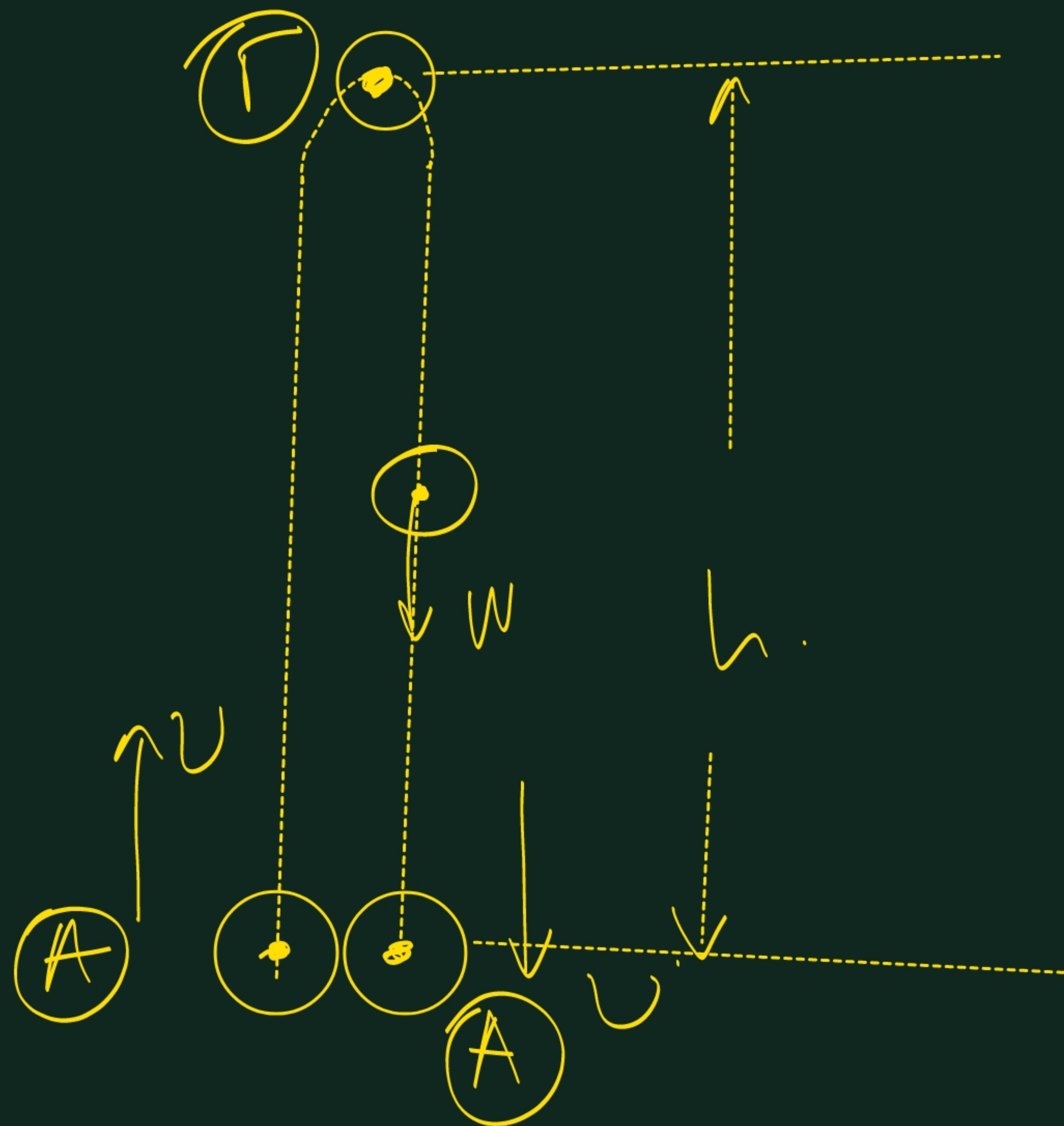


Εφελυγόνι 662.168)


$$\exists M \models \pi : \textcircled{\sqrt{}} \rightarrow \textcircled{A}$$

$$\Delta K = \sum W \Rightarrow$$

$$K_A - K_V = W_B \Rightarrow$$

$$K - 0 = m \cdot g \cdot h \Rightarrow$$

$$K = 1 \cdot 10 \cdot 2 \Rightarrow K = 20 \text{ Joule}$$

$$K = \frac{1}{2} m v^2 \Rightarrow 20 = \frac{1}{2} \cdot 1 \cdot v^2 \Rightarrow$$

$$U^2 = 40 \Rightarrow U = \sqrt{4 \cdot 10} = 1$$

$$U = 2\sqrt{10} \text{ m/s.}$$

Αν το ψ_0 είναι διάνυσμα:

$$\Delta K' = \sum W' \Rightarrow$$

$$K' = m g \cdot 2h \Rightarrow$$

$$K' = 1 \cdot 10 \cdot 4 \Rightarrow K' = 40 \text{ J.}$$

$$K' = \frac{1}{2} \cdot m \cdot v'^2 \rightarrow$$

$$40 = \frac{1}{2} \cdot 1 \cdot v'^2 \Rightarrow v'^2 = 80 \Rightarrow$$

$$v' = \sqrt{16 \cdot 9} = 4\sqrt{9} \text{ m/s.}$$

$$\frac{v'}{v} = \frac{\sqrt{80}}{\sqrt{40}} = \sqrt{2}$$