

03/10/24) Αδου.17

$$K = \frac{1}{2}mv^2$$

$$K' = \frac{1}{2}m \cdot (2v)^2 = 4 \cdot \frac{1}{2}mv^2 = 4K$$

$$\text{Ποσοστό μεταβολής (\%)} = \frac{\text{Μεταβολή}}{\text{αρχική τιμή}} \cdot 100\%$$

$$\eta \quad \eta \% = \frac{\Delta \Phi}{\Phi_{\text{αρχ}}} \cdot 100 = \frac{\Phi_{\text{τελ}} - \Phi_{\text{αρχ}}}{\Phi_{\text{αρχ}}} \cdot 100$$

$$\begin{aligned} \eta \% &= \frac{\Delta K}{K} \cdot 100 = \frac{K' - K}{K} \cdot 100 = \\ &= \frac{4K - K}{K} \cdot 100 = 3 \cdot 100 = \\ &= 300\% \\ &\text{αύξηση} \end{aligned}$$

Αδου. 9

$$v = v_0 + a \cdot t$$

$$a) \quad 20 = 8 + 12 \cdot t \Rightarrow 20 - 8 = 12 \cdot t \Rightarrow \frac{12}{12} = \frac{12 \cdot t}{12} \Rightarrow t = 1 \text{ sec}$$