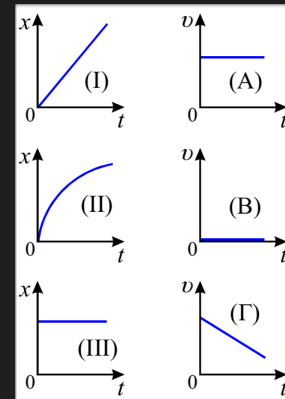


3.34

Είδος Κίνησης...	ΕΟΕ&Κ	ΕΟΚ	Ακτινισία
Διάγραμμα Θέσης	II	(I)	III
Τύπος Θέσης	$x = v_0 t - \frac{1}{2} a t^2$	$x = v \cdot t$	$x = \text{σταθ.}$
Διάγραμμα Ταχύτητας	(Γ)	A	B
Τύπος Ταχύτητας	$v = v_0 - at$	$v = \omega \cdot t$ $v = \Delta x / \Delta t$	$v = 0$

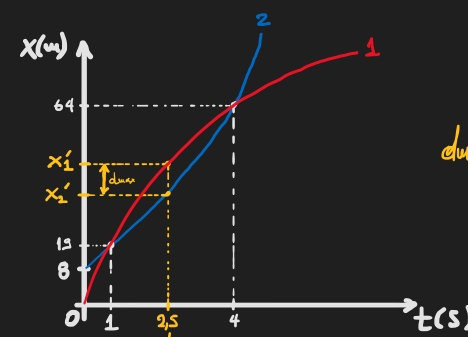
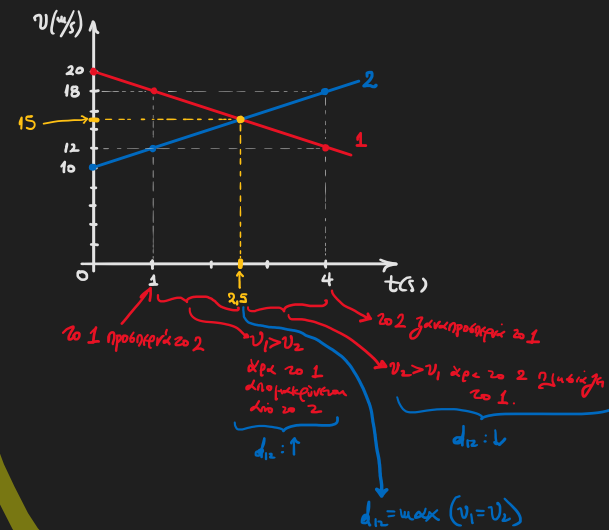


3.33
B

I: ΕΟΕ&Κ
II: ΕΟΕ&Κ
III: ΕΟΚ ($a=0$)
 $\left. \begin{matrix} \text{Είδη II} > \text{Είδη I} \\ \alpha_{II} > \alpha_I \end{matrix} \right\}$

3.26

ΒΛΕΠΕΤΑΙ



$$\begin{aligned}
 d_{\text{max}} &= x_1' - x_2' = \\
 &= \left(v_{01} t' - \frac{1}{2} a_1 t'^2 \right) - \left(v_{02} t' + \frac{1}{2} a_2 t'^2 \right) = \\
 &= \left(20 \cdot 2.5 - \frac{1}{2} \cdot 2 \cdot 2.5^2 \right) - \left(10 \cdot 2.5 + \frac{1}{2} \cdot 2 \cdot 2.5^2 \right) = \\
 &= 50 - 6.25 - 25 + 6.25 \Rightarrow \boxed{d_{\text{max}} = 25 \text{ m}}
 \end{aligned}$$

3.32
φ

(A): ΕΟΕ&Κ $\rightarrow \alpha_2 > 0$
 (I): ΕΟΕ&Κ $\rightarrow \alpha_1 < 0$ $\left. \vphantom{\begin{matrix} (A) \\ (I) \end{matrix}} \right\} \Gamma \rightarrow \Delta x \cdot \alpha_2$

$$\alpha_1 = \frac{\Delta v}{\Delta t} = \frac{0 - 2v_0}{t_1 - 0} = -\frac{2v_0}{t_1} = -2\alpha_2 \Rightarrow \boxed{\alpha_1 = -2\alpha_2}$$

$$\alpha_2 = \frac{\Delta v}{\Delta t} = \frac{2v_0 - v_0}{t_1 - 0} = \frac{v_0}{t_1}$$

$$\Delta x_1 = \text{Είδη ταχύτητας} = \frac{v_1}{2} = \frac{t_1 \cdot 2v_0}{2} = v_0 t_1$$

$$\Delta x_2 = \text{Είδη ταχύτητας} = \frac{(v_0 + 2v_0)}{2} = \frac{3v_0}{2} = \frac{3}{2} \Delta x_1 \Rightarrow \boxed{\Delta x_2 = \frac{3}{2} \Delta x_1} \Rightarrow \boxed{\Delta x_1 = \frac{2}{3} \Delta x_2}$$

A.