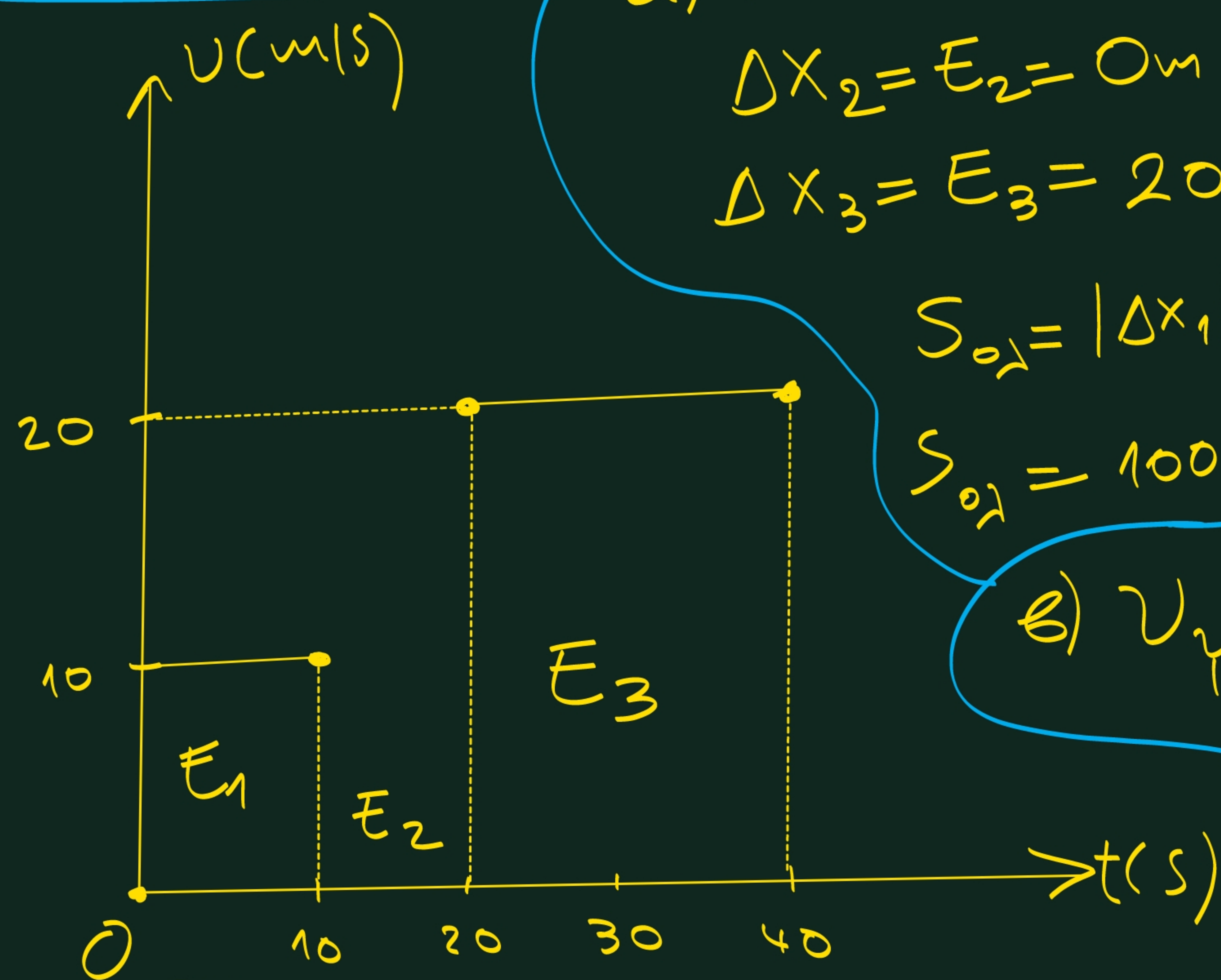


Ασκ. 3 εστ. 69



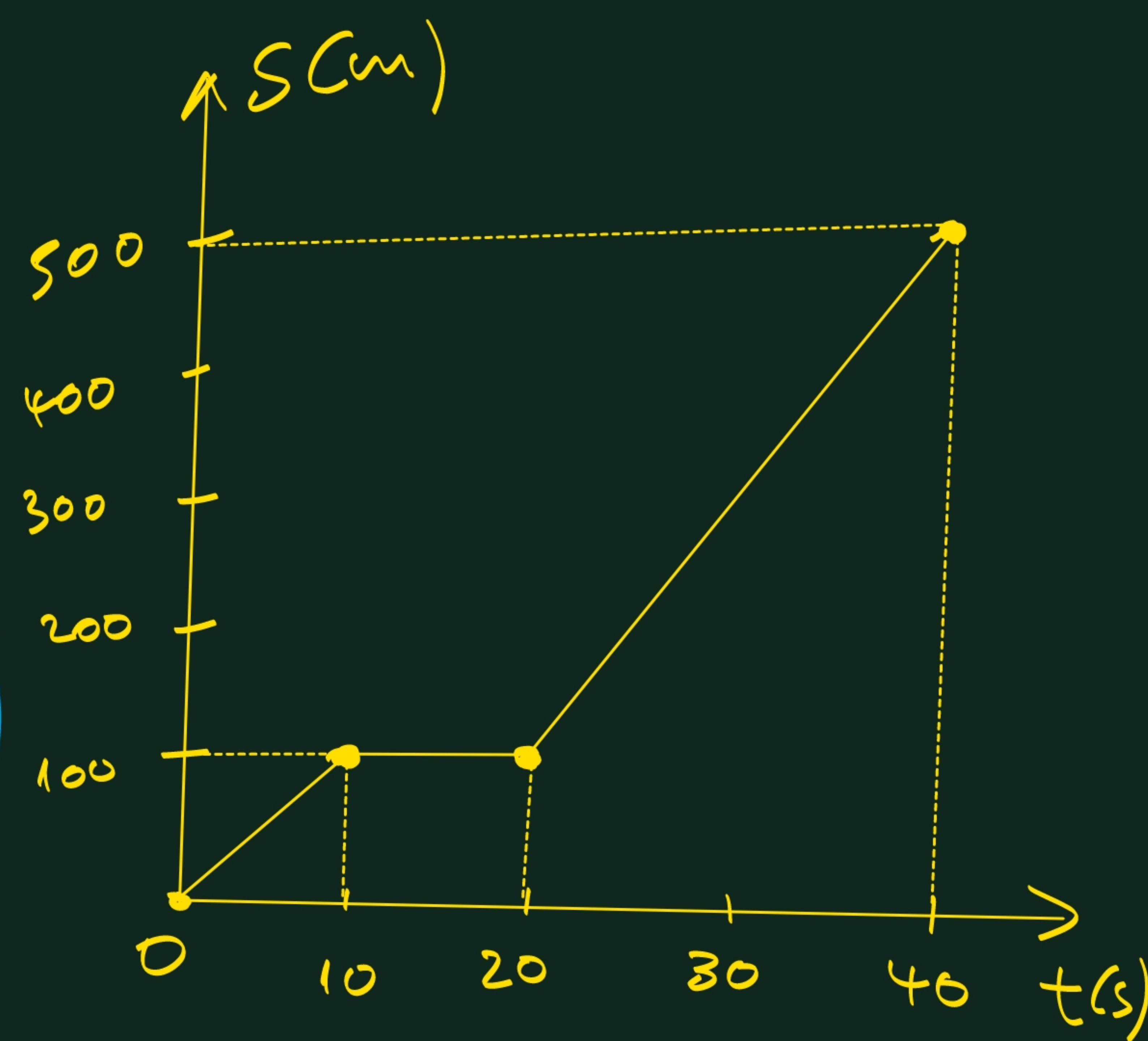
γ) $S = v \cdot t$

α) $\Delta x_1 = E_1 = 10 \cdot 10 = 100 \text{ m}$
 $\Delta x_2 = E_2 = 0 \text{ m}$
 $\Delta x_3 = E_3 = 20 \cdot 20 = 400 \text{ m}$

$S_{\text{ολ}} = |\Delta x_1| + |\Delta x_2| + |\Delta x_3| \Rightarrow$
 $S_{\text{ολ}} = 100 + 0 + 400 = 500 \text{ m}$

β) $v_{\gamma} = \frac{S_{\text{ολ}}}{\Delta t_{\text{ολ}}} = \frac{500}{40} \Rightarrow$

$v_{\gamma} = 12,5 \text{ m/s}$
 (μέση ταχύτητα)



Από $0 \rightarrow 10 \text{ sec}$

έκουμε: $S_1 = |\Delta x_1| = 100 \text{ m}$

Από $0 \rightarrow 20 \text{ sec}$

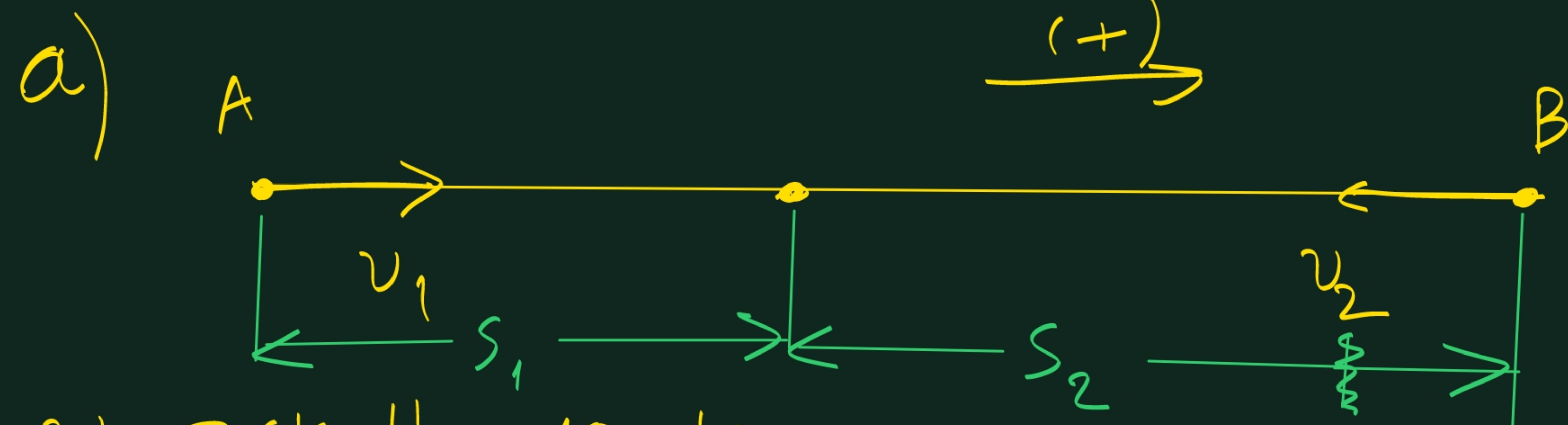
έκουμε: $S_2 = |\Delta x_1| + |\Delta x_2| = 100 \text{ m}$

Από $0 \rightarrow 40$ έχουμε

$S_{\text{ολ}} = 500 \text{ m.}$

Αβλ. 4 βελ. 69.)

$$AB = 1 \text{ km} = 1000 \text{ m}$$



$$v_1 = 36 \text{ km/h} = 10 \text{ m/s.}$$

$$v_2 = 54 \text{ km/h} = \frac{54 \cdot 1000 \text{ m}}{3600 \text{ sec}} = 15 \text{ m/s.}$$

$$s_1 + s_2 = AB \Rightarrow$$

$$v_1 \cdot t + v_2 \cdot t = AB \Rightarrow$$

$$10t + 15t = 1000 \text{ m} \Rightarrow$$

$$25t = 1000 \Rightarrow t = 40 \text{ sec}$$

↑
χρόνος

$$s_1 = v_1 \cdot t = 1$$

$$s_1 = 10 \cdot 40 = 1$$

$$s_1 = 400 \text{ m}$$

$$(και s_2 = 600 \text{ m})$$

↑
σημείο.

