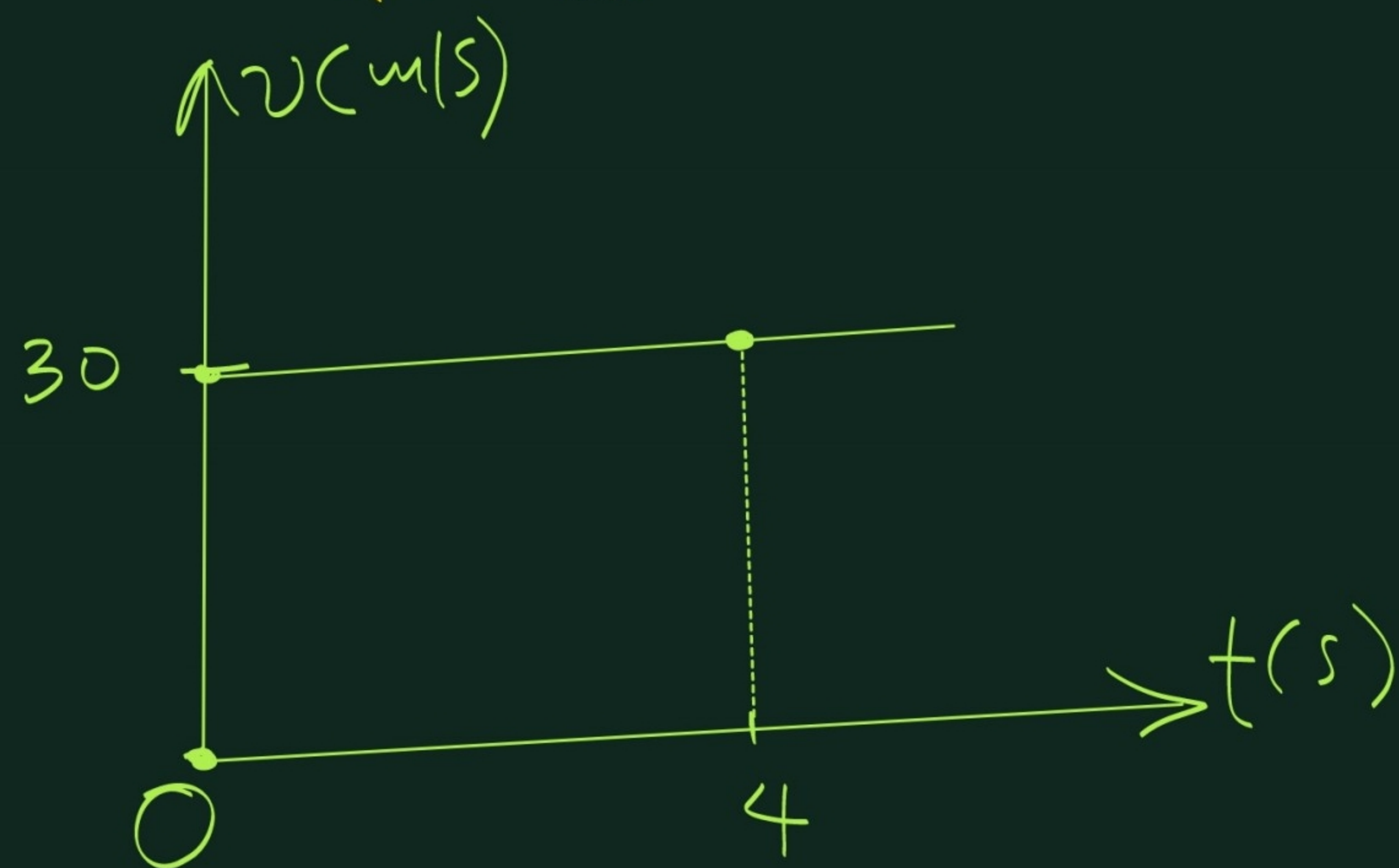


Αβυ. 1 βελ. 69.

$$v = \frac{s}{t} \Rightarrow v = \frac{120}{4} \Rightarrow v = 30 \text{ m/s} = 108 \text{ km/h}$$

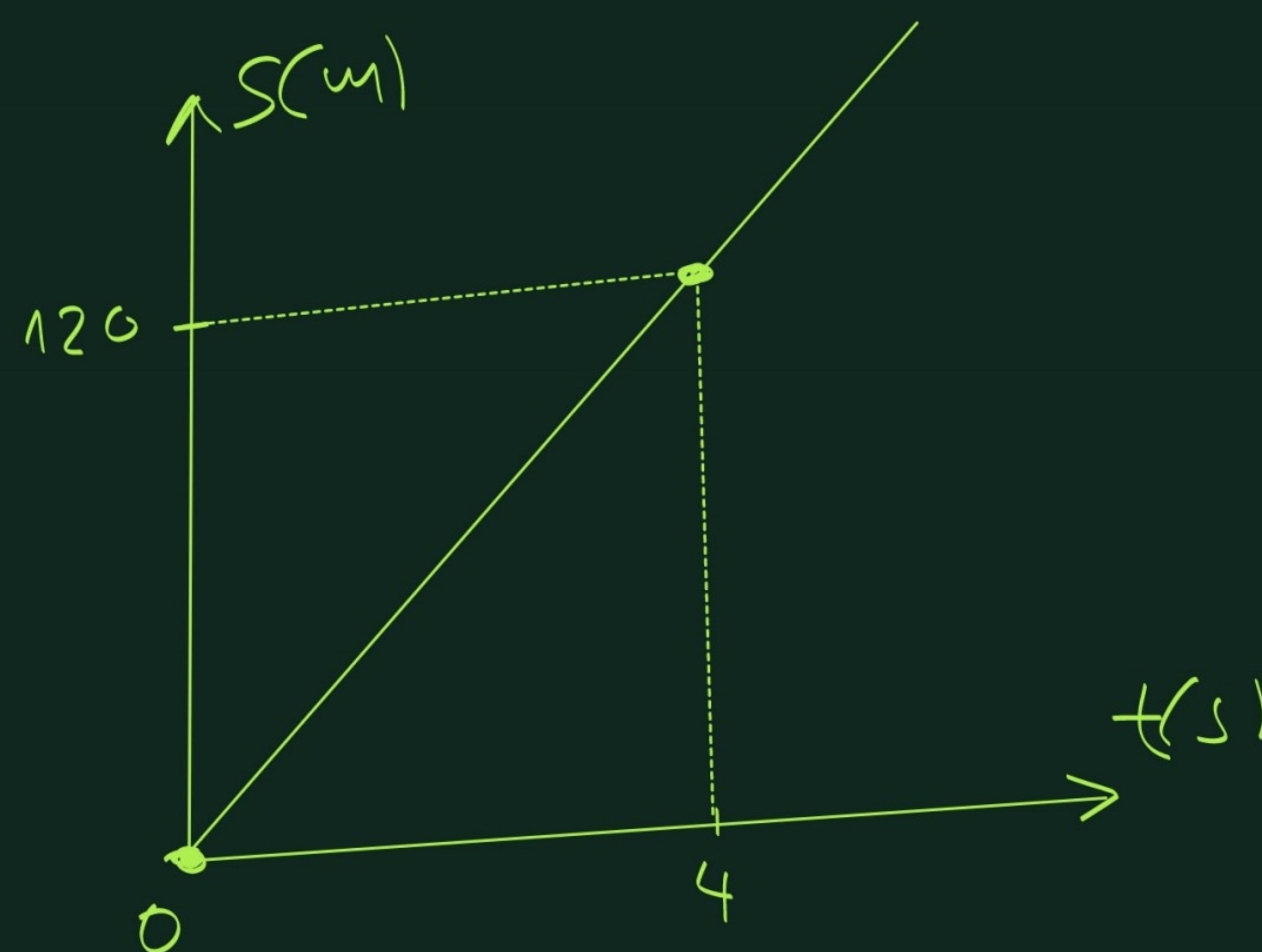
$$10 \text{ m/s} = 36 \text{ km/h}$$



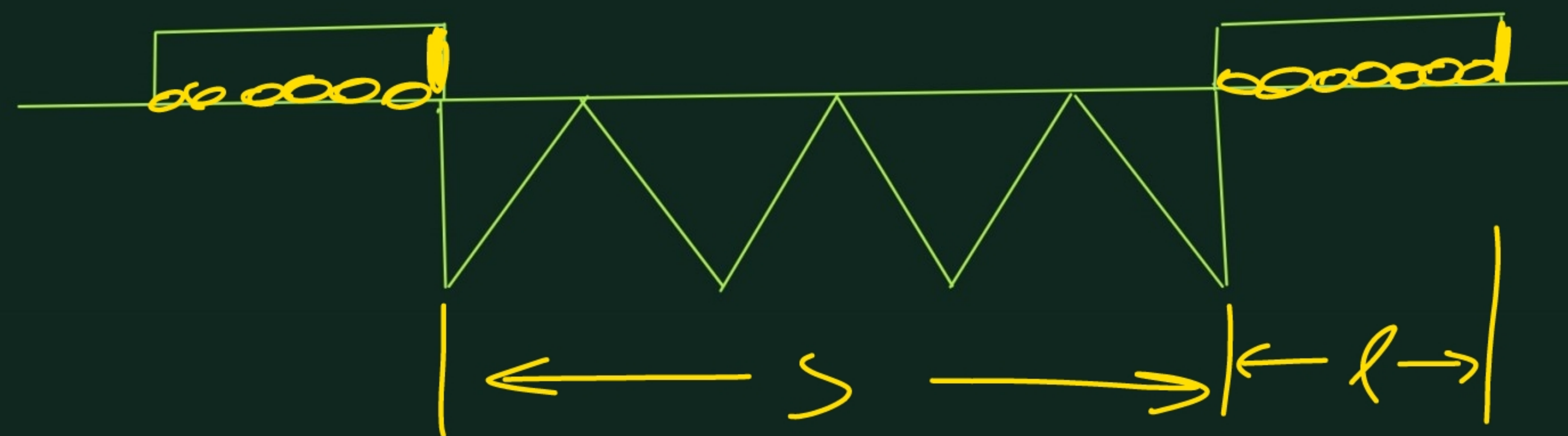
$S = \Delta x$ είναι η μετατόπιση
έχει διαφορετική φορά.
Γνωστά: $S = 120$

$$v = \frac{s}{t} \Rightarrow \boxed{S = v \cdot t}$$

Αρα έχουμε εξίσωση
εighth



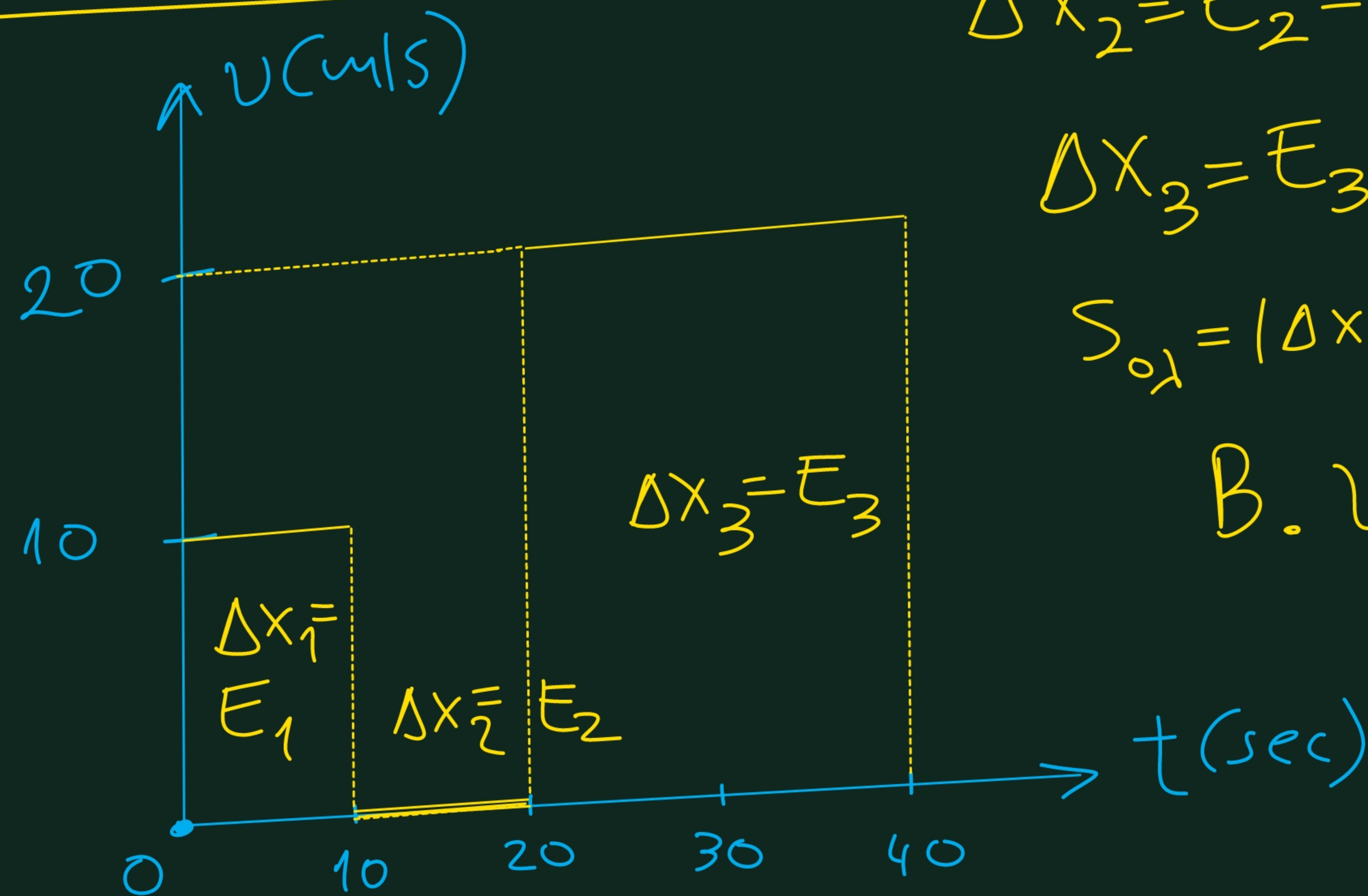
Абу. 2 6ελ. 69.)



$$V = \frac{S+l}{\Delta t} \Rightarrow 10 = \frac{1980+20}{\Delta t} \Rightarrow$$

$$\frac{10}{1} = \frac{2000}{\Delta t} \Rightarrow \Delta t = 200 \text{ sec}$$

Α64.3 6ε2.69



$$S = v \cdot t$$

1^{ου} φάσους

$$A. \Delta x_1 = E_1 = 10 \cdot 10 = 100 \text{ m}$$

$$\Delta x_2 = E_2 = 10 \cdot 0 = 0 \text{ m}$$

$$\Delta x_3 = E_3 = 20 \cdot 20 = 400 \text{ m}$$

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

$$B. v_{\gamma \text{έκμ}} = \frac{S_{\text{ολ}}}{\Delta t_{\text{ολ}}} \Rightarrow v_{\gamma} = \frac{500}{40} \Rightarrow$$

$$v_{\gamma} = 12,5 \text{ m/s}$$

Γ. Από 0 → 10 sec έχουμε:

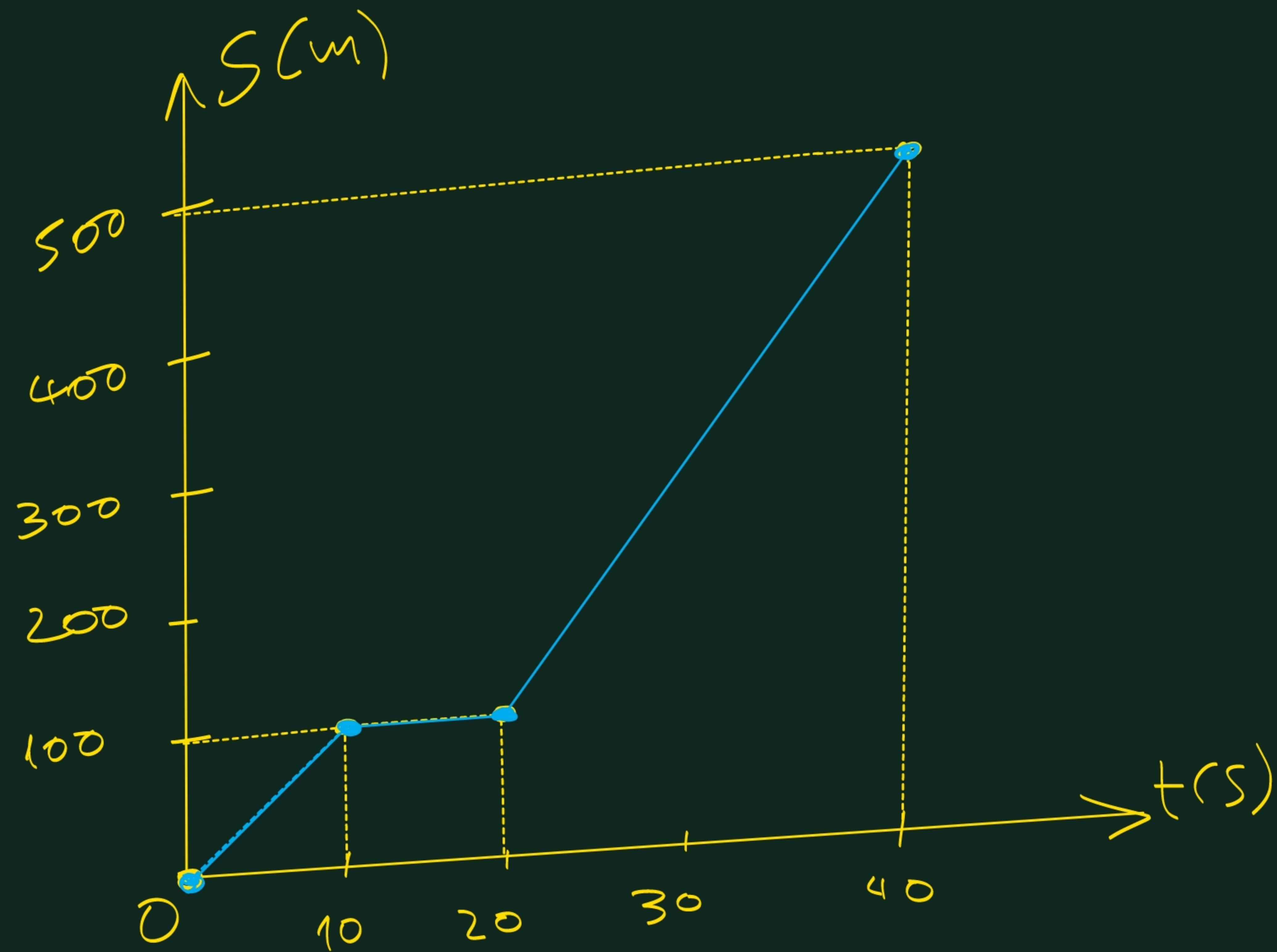
$$\Delta x_1 = S_1 = 100 \text{ m}$$

Από 10 → 20 sec έχουμε:

$$\Delta x_2 = S_2 = 0 \text{ m}$$

Από 20 → 40 sec έχουμε:

$$\Delta x_3 = S_3 = 400 \text{ m}$$



$$x(t) = x_0 + v_0 t$$

Διάγραμμα θέσης-χρόνου ($x-t$)

$$x_0 = x(0) = 0 \text{ m}$$

Από $0 \rightarrow 10 \text{ sec}$

$$\Delta x_1 = x(10) - x(0) =$$

$$100 = x(10) - 0 \Rightarrow x(10) = 100 \text{ m}$$

Από $10 \rightarrow 20 \text{ sec}$

$$\Delta x_2 = x(20) - x(10) =$$

$$0 = x(20) - 100 \Rightarrow x(20) = 100 \text{ m}$$

Από $20 \rightarrow 40 \text{ sec}$

$$\Delta x_3 = x(40) - x(20) =$$

$$400 = x(40) - 100 \Rightarrow x(40) = 500 \text{ m}$$

