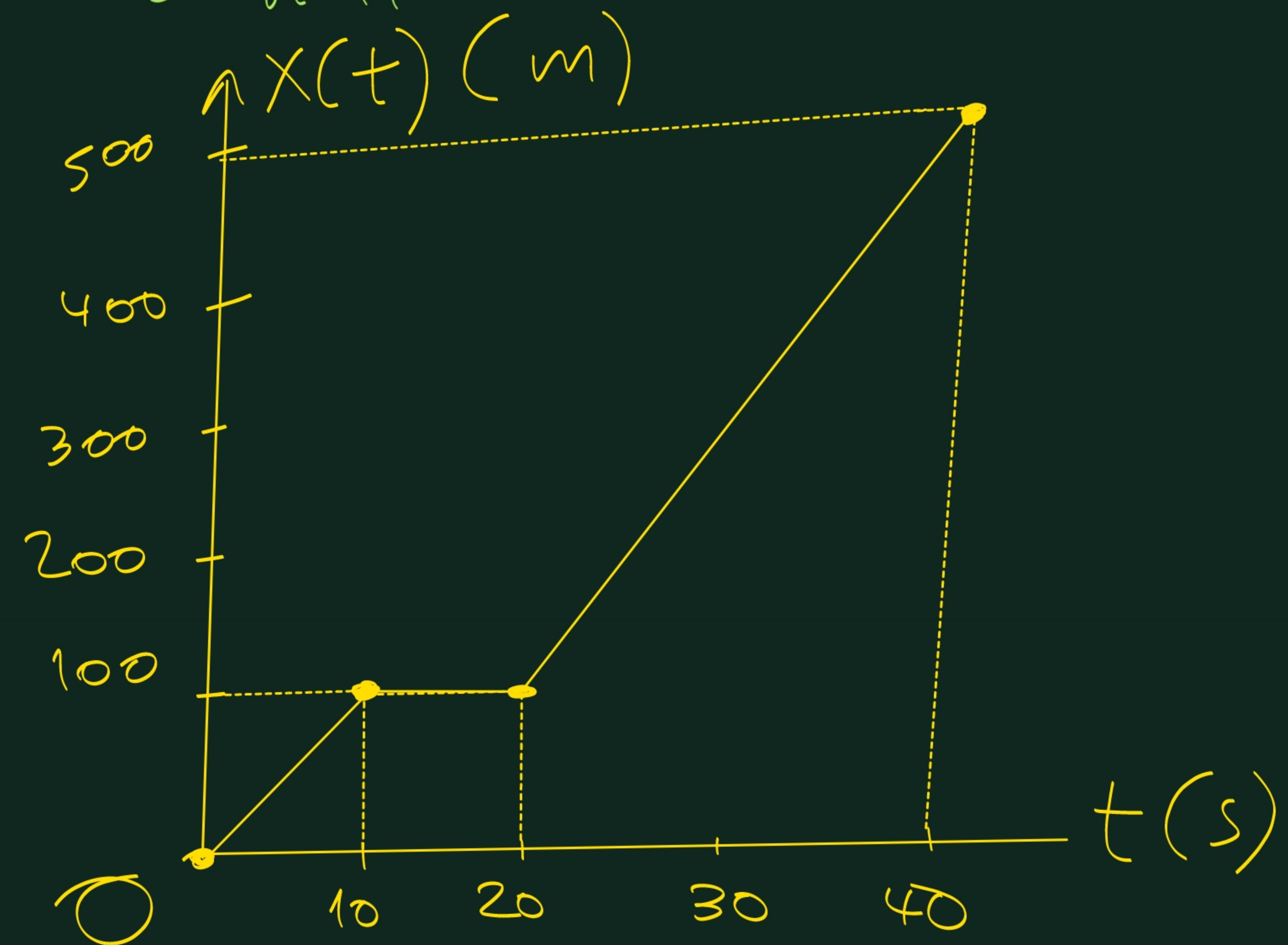


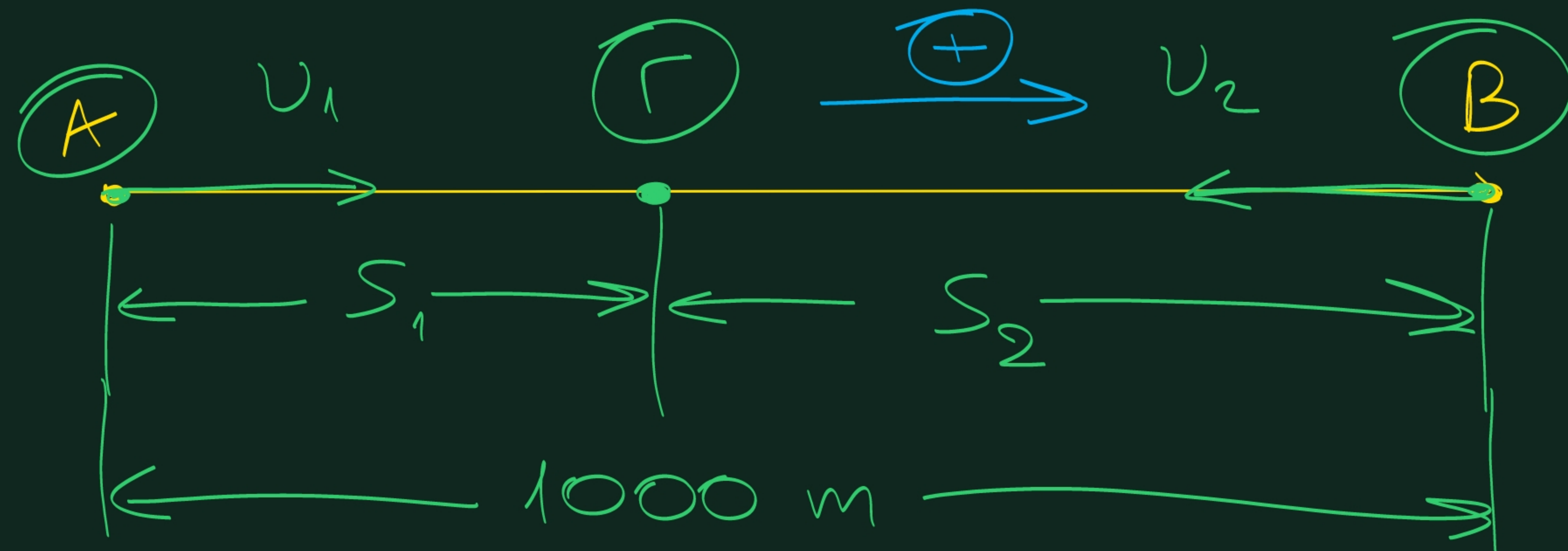
Διάγραμμα θέσης - χρόνου



Ασκ. 4 ελ. 69

$$A. v_1 = 36 \text{ km/h} = \frac{36.000 \text{ m}}{3.600 \text{ sec}} = 10 \text{ m/s}$$

$$v_2 = 54 \text{ km/h} = \frac{54.000 \text{ m}}{3.600 \text{ sec}} = 15 \text{ m/s.}$$



$$s_1 = v_1 \cdot t \Rightarrow s_1 = 10t$$

$$s_2 = v_2 \cdot t \Rightarrow s_2 = 15t$$

Χρόνος συνάντησης

$$s_1 + s_2 = 1000 \Rightarrow$$

$$10t + 15t = 1000 \Rightarrow$$

$$\frac{25t}{25} = \frac{1000}{25} \Rightarrow$$

$$t = 40 \text{ sec.}$$

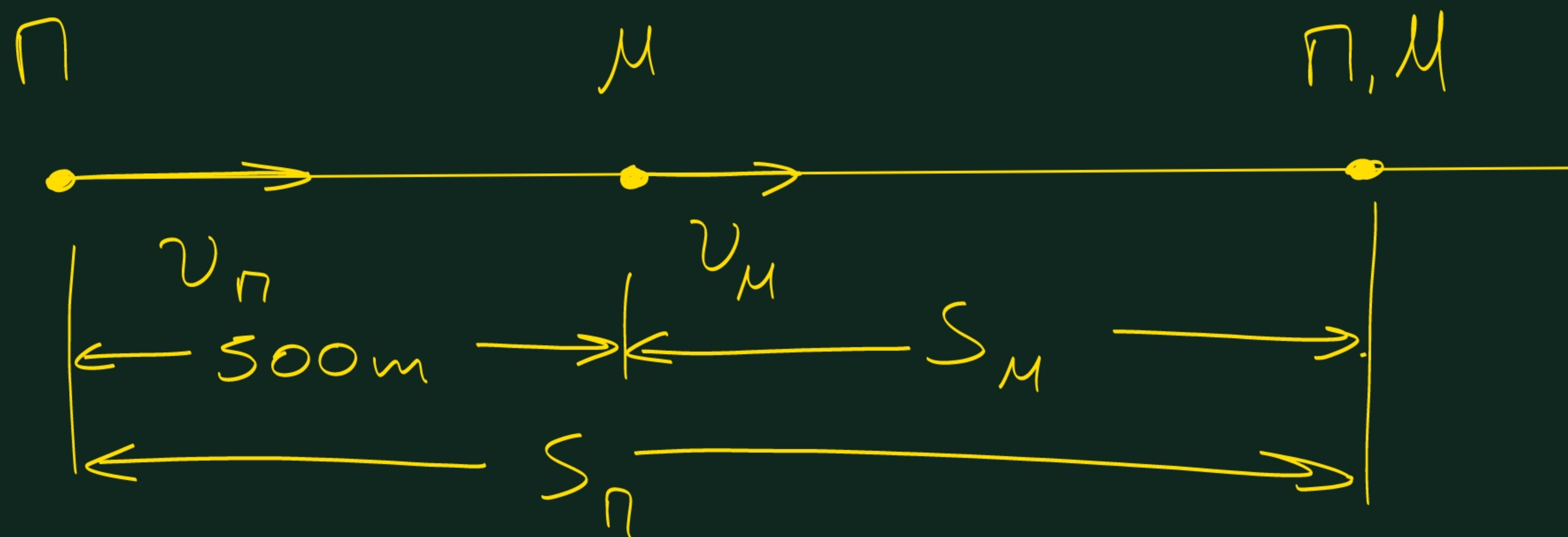
Συνέχεια συνάντησης.

$$s_1 = 10t = 400 \text{ m}$$

$$s_2 = 15t = 600 \text{ m}$$

Абв. 5 642.69

A.



$$v_N = 30 \text{ m/s.}$$

$$v_M = 20 \text{ m/s}$$

$$S_N - S_M = 500 =)$$

$$v_N \cdot t - v_M \cdot t = 500 =)$$

$$30t - 20t = 500 \Rightarrow$$

$$\frac{10 \cdot t}{10} = \frac{500}{10} \Rightarrow t = 50 \text{ sec}$$

B. $S_N = v_N \cdot t \Rightarrow$

$$S_N = 30 \cdot 50 \Rightarrow$$

$$S_N = 1500 \text{ m.}$$