

Αβλ. 4 εελ. 107

α)

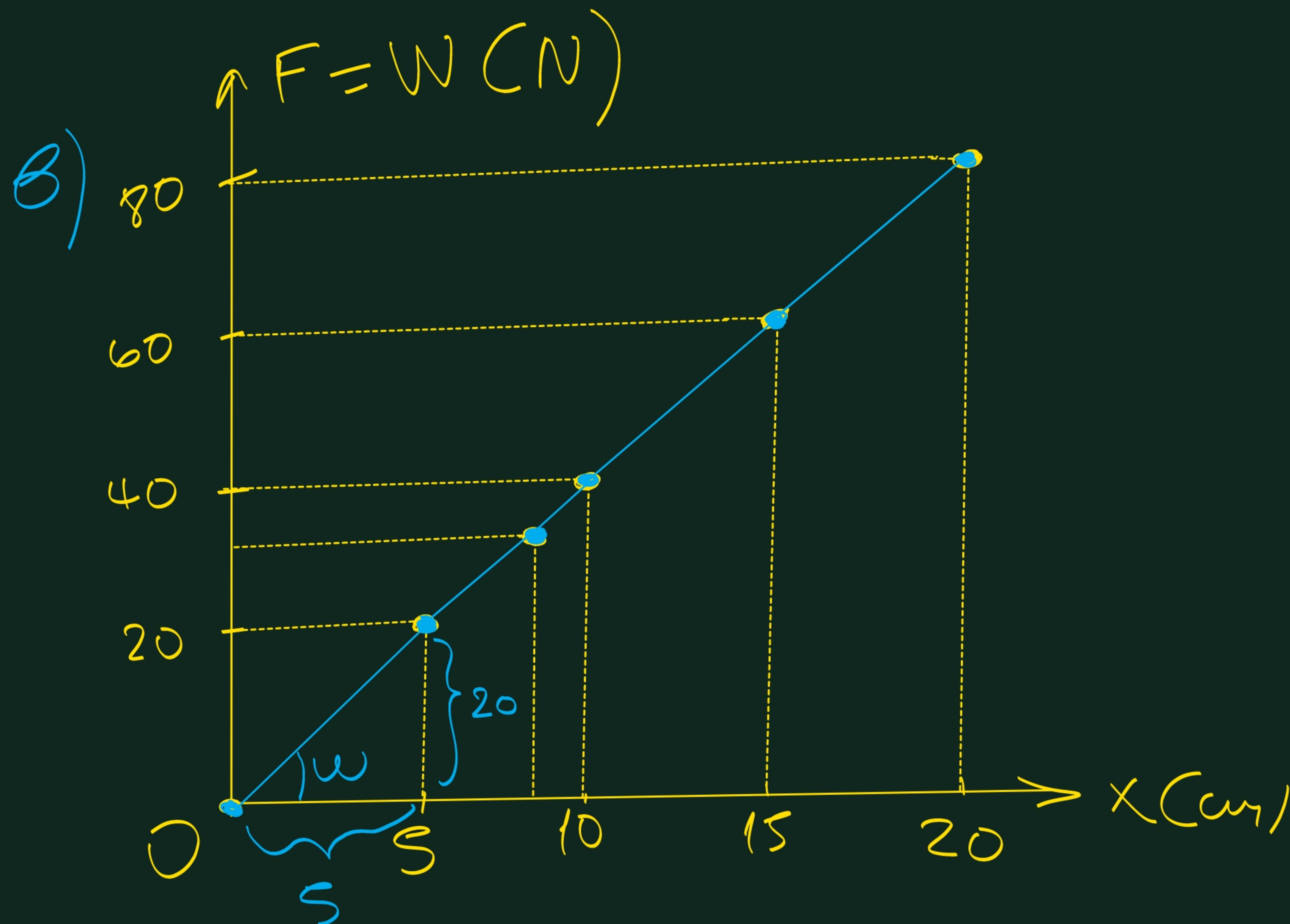
Εκτάσεις (cm)	5	8	10	15	20
Βάρος (N)	20	32	40	60	80

$$F = k \cdot \Delta l =$$

$$80 = k \cdot 20 \Rightarrow$$

$$k = 4 \text{ N/cm}$$

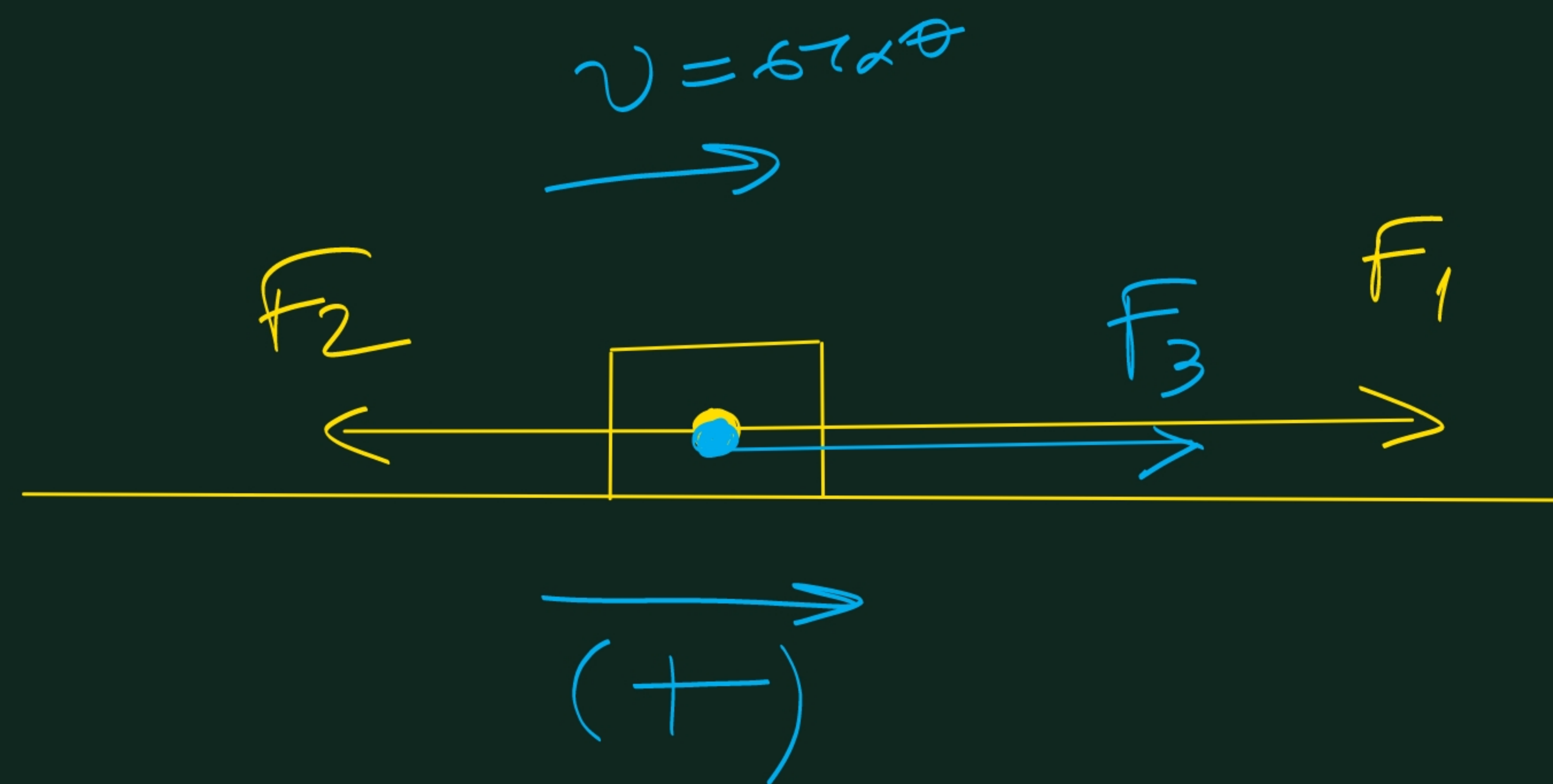
$$F = \text{Βάρος} = W \text{ (weight)}$$



γ) $k_{\lambda} = \varepsilon \phi \omega = \frac{20}{5} = 4 \text{ N/cm}$.

Αρ. η σταθερά του ελαστικού είναι:
 $k = \varepsilon \phi \omega = 4 \text{ N/cm} = 400 \text{ N/m}$

Αδμ. 5 6ε2.107



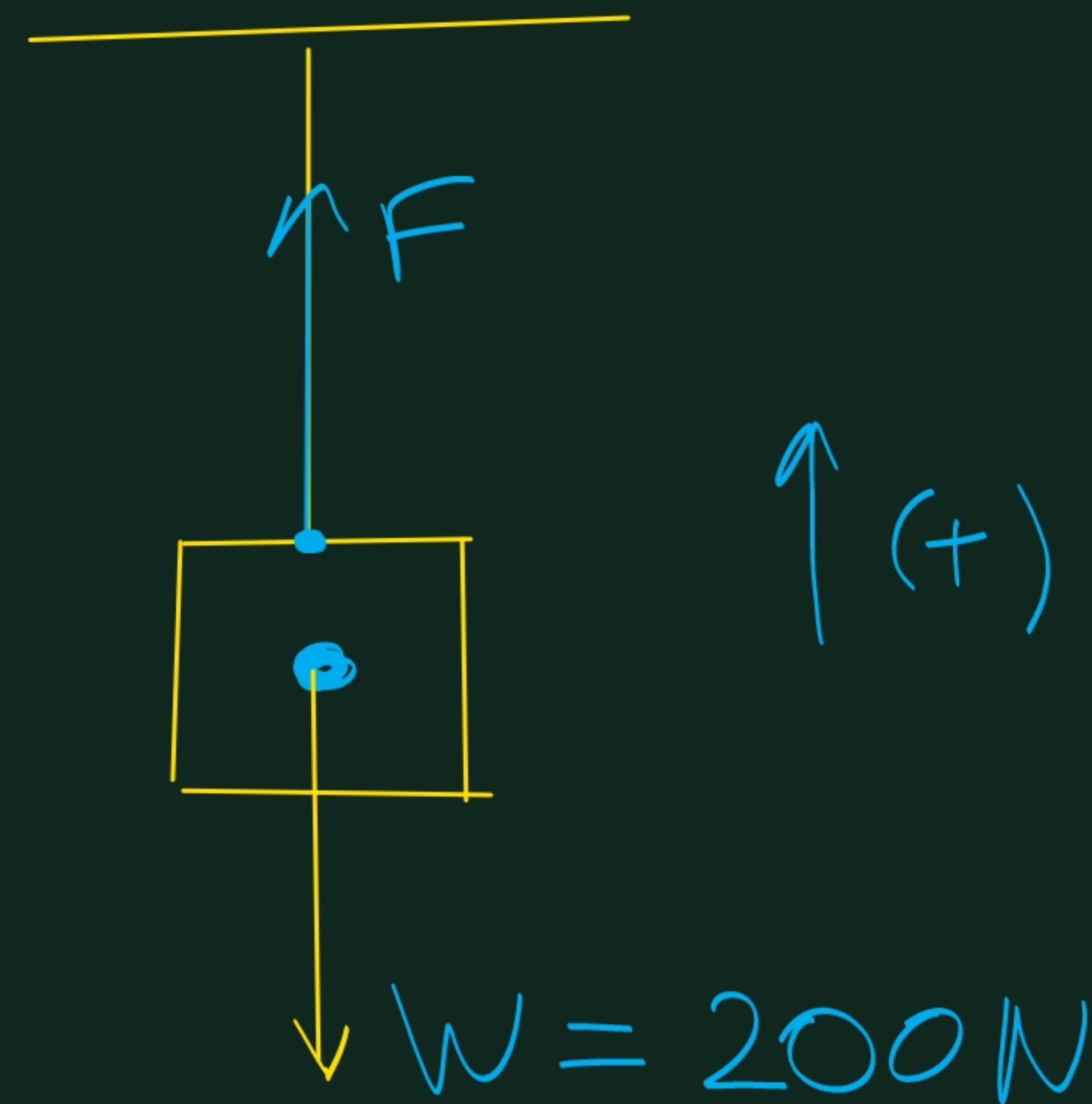
$$\Sigma F = 0 \Rightarrow F_1 + F_3 - F_2 = 0 \Rightarrow$$

$$22 + F_3 - 7 = 0 \Rightarrow$$

$$F_3 = -15 \text{ N}$$

Άρα η F_3 έχει
μέτρο 15 N και
φορά προς τα
δεξιά.

Αδμ. 6 6ε2.107



$$\Sigma F = F - W =$$

$$0 = F - 200 \Rightarrow$$

$$F = 200 \text{ N (από το υλacci)}$$