

A. 6u. 4 | 6ελ. 107)

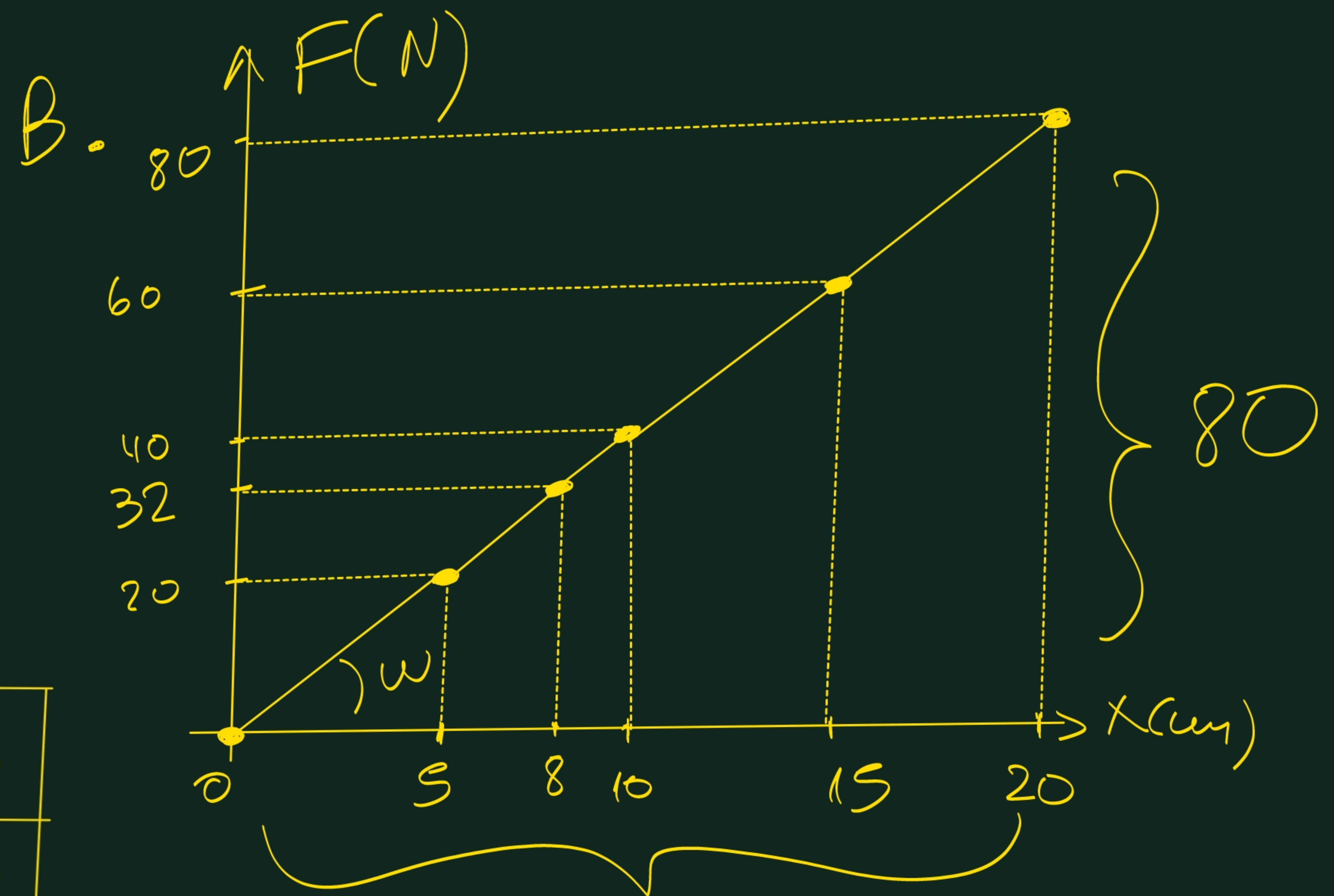
A. $F = k \cdot \Delta l = k \cdot x$

Δl = επιμήκυνση ή συστομείωση
και συμβολίζεται και με x .

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

$$\frac{5}{x} = \frac{20}{80} \Rightarrow x = 20$$

$$\frac{8}{x} = \frac{32}{80} \Rightarrow x = 20$$



Γ. $k_{\text{δίσκ}} = \varepsilon \varphi \omega = \frac{80 \text{ N}}{20 \text{ cm}} = 4 \text{ N/cm}$

$\varepsilon \varphi \omega = k = \frac{4 \text{ N}}{\text{cm}} = \frac{4 \text{ N}}{0.01 \text{ m}} \Rightarrow k = 400 \text{ N/m}$

Agu. 11 682.107-8.)

$$A. \Sigma F_1 = m_1 a_1 \Rightarrow F_1 = m_1 a_1 \Rightarrow a_1 = \frac{F_1}{m_1} \Rightarrow$$

$$a_1 = \frac{4}{1} \Rightarrow a_1 = 4 \text{ m/s}^2$$

$$\Sigma F_2 = m_2 a_2 \Rightarrow F_2 = m_2 \cdot a_2 \Rightarrow$$

$$a_2 = \frac{F_2}{m_2} \Rightarrow a_2 = \frac{15}{3} \Rightarrow$$

$$a_2 = 5 \text{ m/s}^2$$

