

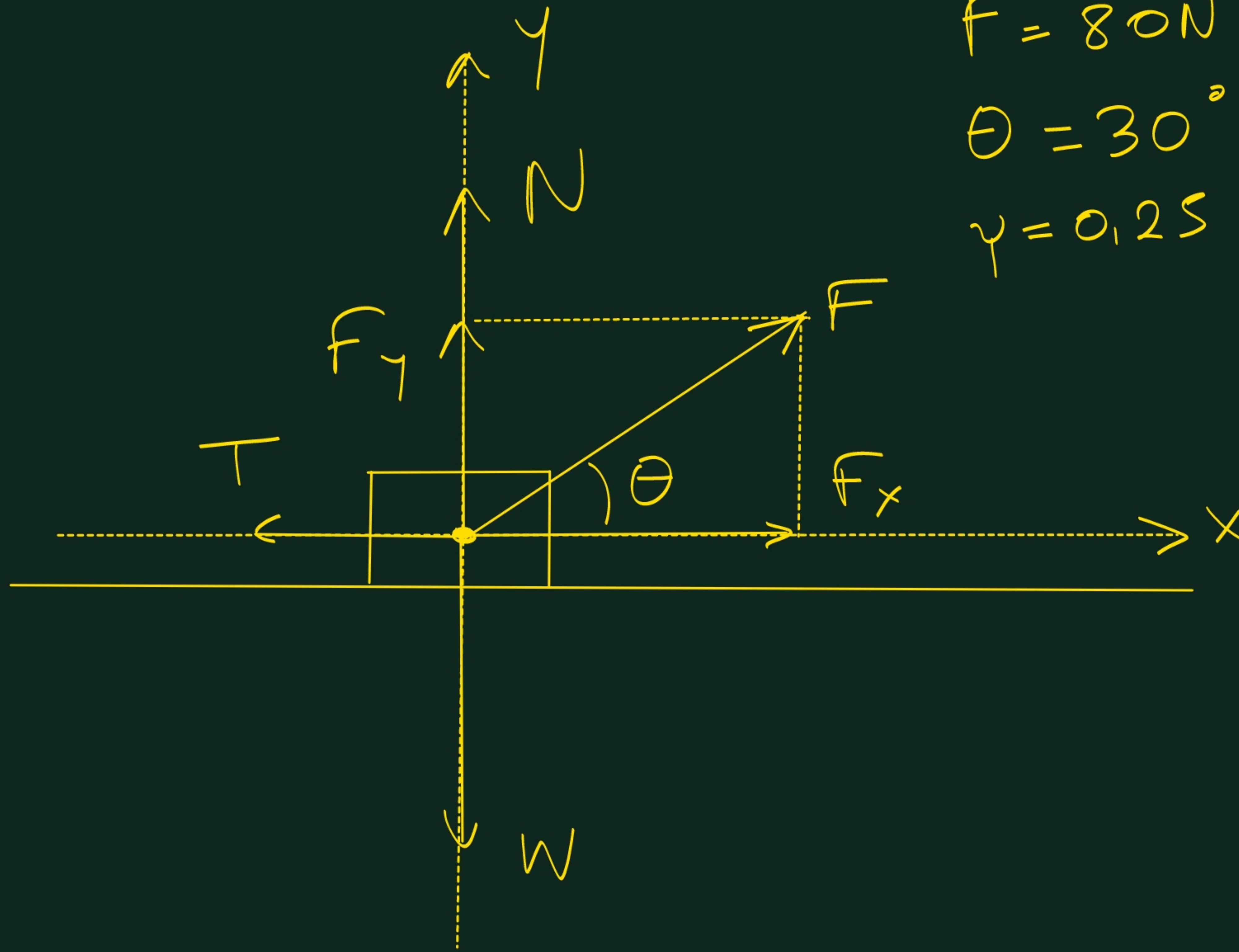
Παράδειγμα 6ε2.128-129.

$$m = 10 \text{ kg.}$$

$$F = 80 \text{ N}$$

$$\theta = 30^\circ$$

$$\gamma = 0,25$$



$$a) \quad \cos \theta = \frac{F_x}{F} \Rightarrow \cos 30^\circ = \frac{F_x}{80} \Rightarrow$$

$$\frac{\sqrt{3}}{2} = \frac{F_x}{80} \Rightarrow F_x = 40\sqrt{3} \text{ N}$$

$$\sqrt{3} \approx 1,7$$

$$F_x = 40 \cdot 1,7 \Rightarrow F_x = 68 \text{ N}$$

$$\sin \theta = \frac{F_y}{F} \Rightarrow \sin 30^\circ = \frac{F_y}{80} \Rightarrow$$

$$\frac{1}{2} = \frac{F_y}{80} \Rightarrow F_y = 40 \text{ N}$$