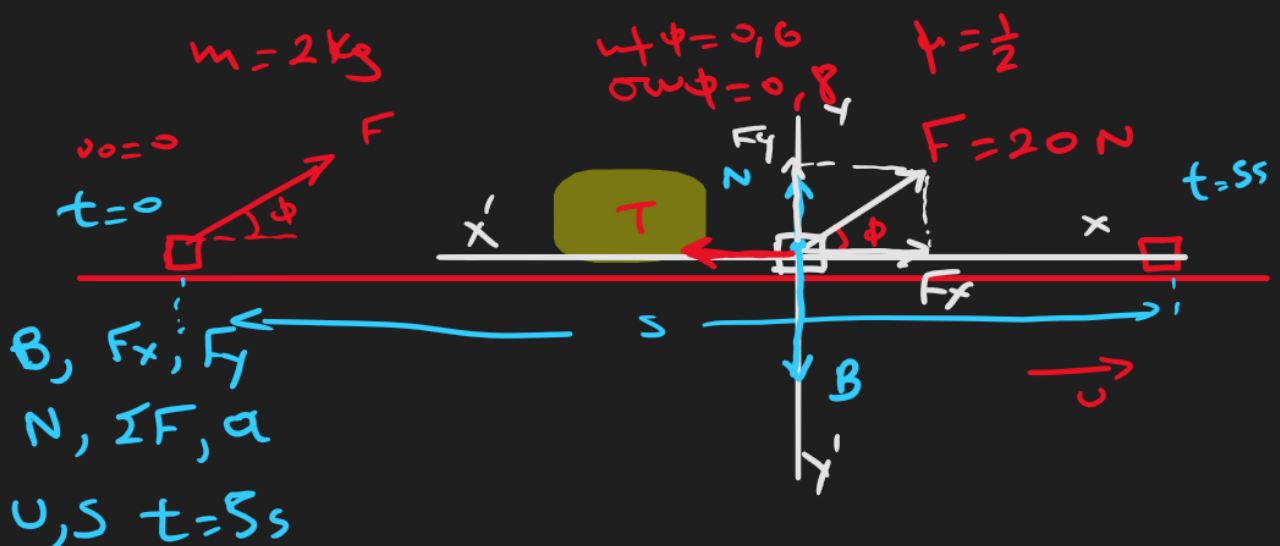




$$B = mg \Rightarrow B = 20 \text{ N} \quad F_x = F \cdot \cos \phi \Rightarrow$$

$$F_x = 16 \text{ N} \quad F_y = F \cdot \sin \phi \Rightarrow F_y = 12 \text{ N}$$

yy' $\sum F_y = 0 \Rightarrow N + F_y - B = 0$

$$N = B - F_y \Rightarrow N = 8 \text{ N} \quad T = \mu \cdot N$$

$$T = \frac{1}{2} \cdot 8 \text{ N} \Rightarrow T = 4 \text{ N}$$

xx' $\sum F_x = \sum F = m \cdot a \Rightarrow$

$$F_x - T = m \cdot a \Rightarrow 16 - 4 = 2 \cdot a$$

$$a = 6 \text{ m/s}^2$$

$$s = \frac{1}{2} a t^2 \Rightarrow s = \frac{1}{2} \cdot 6 \cdot 5^2 \Rightarrow s = 75 \text{ m}$$

$$v = a t \Rightarrow v = 6 \cdot 5 \text{ m/s} \Rightarrow v = 30 \frac{\text{m}}{\text{s}}$$