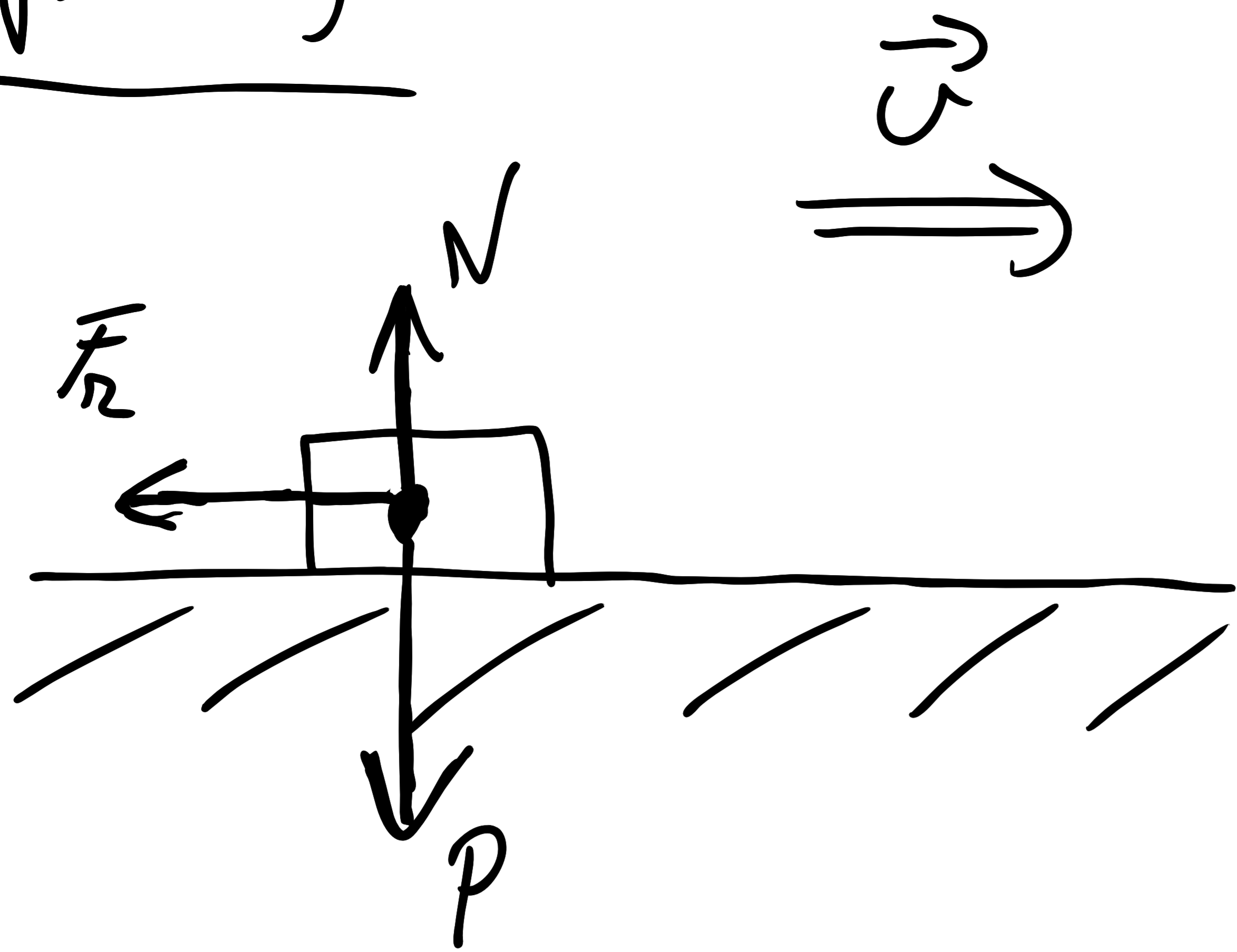


12º) (p. 79)



$$F_R = \mu \cdot N \Rightarrow (5 \text{ N}) = (0'15) \cdot N \quad (1)$$

EJE X

$$-F_R = m \cdot a \rightarrow (-5 \text{ N}) = m \cdot a \quad (2)$$

EJE Y

$$P - N = 0 \Rightarrow P = N \Rightarrow m \cdot g = N \quad (3)$$

Con (1) y (3) calculamos la masa:

$$(5 \text{ N}) = (0'15) \cdot N \rightarrow (5 \text{ N}) = (0'15) \cdot (m \cdot g) \rightarrow$$

$$(5 \text{ N}) = (0'15) \cdot m \cdot (9'8 \text{ m/s}^2) \Rightarrow \boxed{m = 3'4 \text{ Kg}}$$

b) Con (2) calculo la aceleración:

$$(-5 \text{ N}) = (3'4 \text{ Kg}) \cdot a \Rightarrow a = \frac{-5 \text{ N}}{3'4 \text{ Kg}} = \frac{-5 \text{ Kg} \cdot \frac{\text{m}}{\text{s}^2}}{3'4 \text{ Kg}}$$

$$\boxed{a = -1'47 \text{ m/s}^2}$$