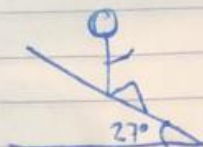
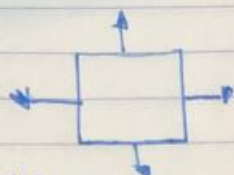


Héctor F_d V_{zz}

2. 21 kg
27 inclinación

$M = ?$

$K = 122 \text{ N/m}$



$$\sum F_y = F_N - (21 \text{ kg} \cdot 9.81) \cos 27^\circ$$

$$F_N = 183.56 \text{ N}$$

$$\sum F_x = -200.015 \sin 27^\circ + 183.56 \text{ N} = 0$$

$$-93.53 + 183.56 \mu = 0$$

$$103.56 \mu = 93.53$$

$$\mu = 0.51$$

1.

$m = 0.109 \text{ kg}$ $K = 122 \text{ N/m}$

$x = -35 \text{ m} / 35 \text{ cm}$

27

$$U_E = \frac{1}{2} k x^2$$

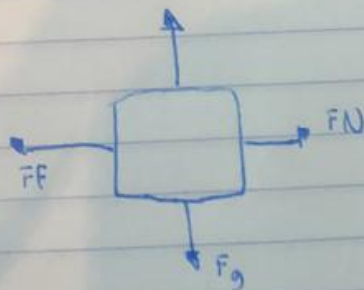
$$E_k = \frac{1}{2} m v^2$$

$$\frac{1}{2} (122) (35)^2 = \frac{1}{2} (0.109) v^2$$

$$7.473 = 0.0545 v^2$$

$$137.62 = v^2$$

$$v = 11.73 \text{ m/s}$$



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