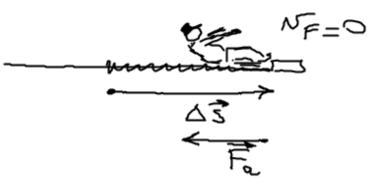
## PAG.464 Val. 2 N8

M=80 Kg

Md=0,70



1) QUAPTI METRI PER CORRE IN SCIVOLATA?

$$\Delta S = \frac{N_{\text{FIN}}^2 - N_{\text{IN}}^2}{2a} = \alpha = -9M_d \text{ Ma} = m/g M_d$$

$$=\frac{(4,0\%)^2}{2.9.8\%.070}=1,16...m ~1,2 m$$

2) CALCOLA IL LAVORD DELLA FORTA D'ATTRITO

$$W = -F_a \cdot \Delta S = -mg \cdot \mu d \cdot \Delta S =$$

$$= -(80 \text{ kg}) \cdot (9,8 \frac{m}{5^2}) \cdot (9,70) \cdot (1,166 \dots m) =$$

$$= -640 \text{ J} = -6,4 \times 10^2 \text{ J}$$

MODO ALTERNATIVO

$$V_{NC} = E_F - E_1 = 0 - \frac{1}{2} m N_0^2 = -\frac{1}{2} (80 kg) (4,0 mg)^2 =$$

$$= -640 \text{ T}$$

## ARROTONDATO A

3725,38 2 c.s. 3700  $3,7 \times 10^3$  3c.s. 3730  $3,73 \times 10^3$  4c.s. 3725  $3,725 \times 10^3$  5c.s. 3725,4  $3,7254 \times 10^3$  6c.s. 3725,38  $3,72538 \times 10^3$ 

PAG. 466 N 27

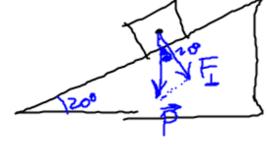
M = 15 Kg M = 0,20  $N_0 = 3,0 \text{ Mg}$ 

 $h = \Delta S \sin 20^{\circ}$   $\Delta S = \frac{h}{8 m 20^{\circ}}$ 

Who = EF-EM

-Faids = mgh - 1 mvo

LAVORO DECL'ATTRITO



Fa = F\_ pla = mg cos 20° pla

$$-F_{a:\Delta S} = mgh - \frac{1}{2}mv_{o}^{2}$$

$$-mg\cos 200 \cdot 9,20 \cdot \frac{h}{\sin 20} = mgh - \frac{1}{2}mv_{o}^{2}$$

$$-5,385055742h = 9,8h - 4,5$$

$$15,18505574h = 4,5$$

$$h = \frac{4,5}{15,185...}m =$$

$$= 0,2963...m \approx 0,30m$$

= 30 cm