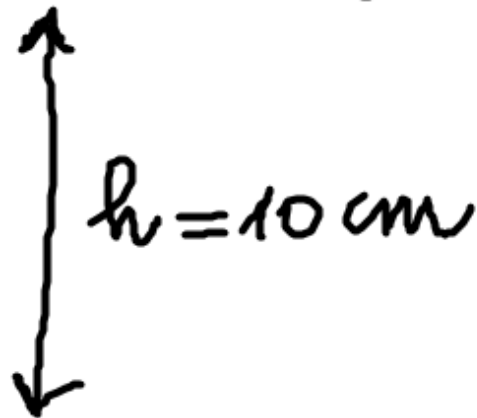


PA4. 465 N 10 PROBLEMA INSENSATO 1

1) \square $m = 4,0 \text{ kg}$ 2)



$$U_{g1} = U_{el2}$$
$$mgh = \frac{1}{2} K s^2$$
$$s = \sqrt{\frac{2mgh}{K}} = 16 \text{ cm}$$

PA4. 465 N 10 PROBLEMA INSENSATO 2

1) \square $m = 4,0 \text{ kg}$ 2)

$h = 10 \text{ cm}$

DISTANZA FRA
BLOCCO ED
ESTREMO SUP.
DELLA MOLLA

$s = ?$
↓
COMPRESSIONE MAX

$K = 300 \frac{\text{N}}{\text{m}}$

s ↓ $U_g = 0$

$$U_{g1} = U_{g2}$$

$$mg(a+s) = \frac{1}{2} k s^2$$

$$mg(a+s) = \frac{1}{2} k s^2$$

$$4,0 \cdot 9,8 (0,10 + s) = 150 s^2$$

$$39,2 (0,10 + s) = 150 s^2$$

$$3,92 + 39,2 s = 150 s^2$$

$$150 s^2 - 39,2 s - 3,92 = 0$$

$$s = \frac{39,2 \pm 62,36}{300} = \begin{cases} + 0,34 \text{ m} \\ - \text{N.A.} \end{cases}$$

PAG. 464 N 7

$$m = 60 \text{ kg}$$



$$E_B = E_A = 5880 \text{ J}$$

$$E_C = -2940 \text{ J}$$

$$E_C - E_B = W_{Nc} \quad \rightarrow \quad F_A = \frac{8820 \text{ J}}{5,0 \text{ m}} = 1,8 \times 10^3 \text{ J}$$
$$-8820 \text{ J} = W_{Nc} = 1,8 \times 10^3 \text{ J}$$