

1 A particle P is projected with speed $u \text{ ms}^{-1}$ from the top of a smooth inclined plane of length $2d$ metres. After its projection P moves downwards along a line of greatest slope with acceleration 4 ms^{-2} . At the instant $1/2$ after projection P has moved half way down the plane. P reaches the foot of the plane $1/2$ after the instant of projection.

(i) Form two simultaneous equations in u and d , and hence calculate the speed of projection of P and the length of the plane. [4]

(ii) Find the inclination of the plane to the horizontal. [2]

(iii) Given that the contact force exerted on P by the plane has magnitude 6 N , calculate the mass of P . [2]

i)

$$\begin{aligned}
 a &= 4 & a &= 4 \\
 t &= 3 & t &= 5 \\
 s &= d & s &= 2d
 \end{aligned}$$

$$s = ut + \frac{1}{2}at^2$$

$$s = ut + \frac{1}{2}at^2$$

$$d = u\left(\frac{1}{2}\right) + \frac{1}{2}(4)\left(\frac{1}{2}\right)^2$$

$$2d = 5u + \frac{1}{2}(4)(5)^2$$

$$d = 3u + 18$$

$$d = 3u + 18 \quad (1)$$

$$2d = 5u + 50 \quad (2)$$

$$d = 3(14) + 18$$

$$(1) \times 2$$

$$6u = 5u + 50$$

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

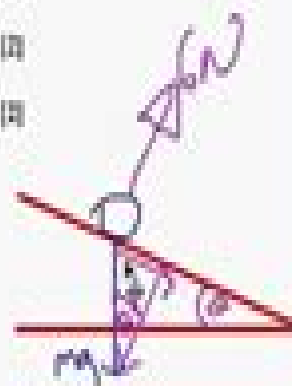
$$2d = 6u + 36$$

$$u = 14 \text{ ms}^{-1}$$

$$\text{length of plane} = 80 \text{ m}$$

$$(iii) R(\nearrow) \quad 6 = mg \cos(24.1^\circ)$$

$$m = 0.671 \text{ kg}$$



$$\begin{aligned}
 (ii) \quad F &= ma \\
 mg \sin \theta &= m(4) \\
 \sin \theta &= \frac{4}{g} \\
 \theta &= 24.1^\circ
 \end{aligned}$$

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