



A block B is placed on a plane inclined at 30° to the horizontal. A particle P of mass 0.6 kg is placed on the upper surface of B . The particle P is attached to one end of a light inextensible string which passes over a smooth pulley fixed to the top of the plane. A particle Q of mass 0.5 kg is attached to the other end of the string. The portion of the string attached to P is parallel to a line of greatest slope of the plane, the portion of the string attached to Q is vertical and the string is taut. The particles are released from rest and start to move with acceleration 1.4 m s^{-2} (see diagram). It is given that B is in equilibrium while P moves on its upper surface.

- Find the tension in the string while P and B are in contact.
- Calculate the coefficient of friction between P and B .
- Given that the weight of B is 7 N , calculate the set of possible values of the coefficient of friction between B and the plane.



(i) P $R(\perp)$ $R = \cos 30 \times 0.6g$
 $R = 5.09$

$4.2 = (0.5 \times 0.6g) - \mu(5.09) = 0.6 \times 1.4$
 $\mu = 0.0825$

$$F = \mu R$$

$$= 0.0825 \times 5.09$$

$$= 0.42$$

(iii) $R(\parallel)$ $R = \cos 30 \times (0.6g + ?)$
 $R = 11.2$

$R(\nearrow)$ $F + F = 7 \sin 30$
 $F_1 + 0.42 = 7 \sin 30$
 $F_1 = 3.08$

$F_1 = \mu R$
 $\mu = \frac{F_1}{R} = \frac{3.08}{11.2} = 0.276 \quad \mu \geq 0.276$

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