



(i)  $\underline{Q}$   $F = ma$   
 $0.5g - T = 0.5 \times 1.4$   
 $T = \frac{21}{5} = \underline{4.2 \text{ N}}$

A block  $B$  is placed on a plane inclined at  $30^\circ$  to the horizontal. A particle  $P$  of mass  $0.6 \text{ kg}$  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  $0.5 \text{ kg}$  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  $1.4 \text{ ms}^{-2}$  (see diagram). It is given that  $B$  is in equilibrium while  $P$  moves on its upper surface.



- (i) Find the tension in the string while  $P$  and  $B$  are in contact.  
 (ii) Calculate the coefficient of friction between  $P$  and  $B$ .  
 (iii) Given that the weight of  $B$  is  $7 \text{ N}$ , calculate the set of possible values of the coefficient of friction between  $B$  and the plane.

(i)  $\underline{P}$   $R(\perp)$   $R = \cos 30 \times 0.6g$   
 $R = 5.09$   
 $\cancel{4.2} - (0.6 \times 0.6g) - \mu(5.09) = 0.6 \times 1.4$   
 $\mu = \underline{0.0825}$

$F = \mu R$   
 $= 0.0825 \times 5.09$   
 $= \underline{0.42}$

(iii)  $\underline{R(\perp)}$   $R = \cos 30 \times (0.6g + ?)$   
 $R = 11.2$

$R(\parallel)$   $F + F = 7 \sin 30$   
 $F_1 + 0.42 = 7 \sin 30$   
 $F_1 = 3.08$   
 $F_1 = \mu R$   
 $\mu = \frac{F_1}{R} = \frac{3.08}{11.2} = 0.276$   $\mu \geq \underline{0.276}$

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**Padhraic Smyth**

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