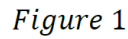


① A block of mass 5 kg is placed on a rough plane which is inclined to the horizontal at an angle θ , where $\tan \theta = \frac{4}{3}$, the coefficient of friction between the block and the plane is $\frac{1}{3}$.

The block is released from rest. Find the acceleration of the block.

[illegible]



Find: (a) the magnitude of the normal reaction between Q and the plane. (b) the value of μ .

(c) Find the distance that Q travels between the instant when the force is removed and the instant when it comes to rest.

[illegible]