



A light inextensible rope has a block A of mass 5 kg attached at one end, and a block B of mass 16 kg attached at the other end. The rope passes over a smooth pulley which is fixed at the top of a rough plane inclined at an angle of 30° to the horizontal. Block A is held at rest at the bottom of the plane and block B hangs below the pulley (see diagram). The coefficient of friction between A and the plane is $\frac{1}{\sqrt{3}}$. Block A is released from rest and the system starts to move. When each of the blocks has moved a distance of $x \text{ m}$ each has speed $v \text{ ms}^{-1}$.

(i) Write down the gain in kinetic energy of the system in terms of v . [1]

(ii) Find, in terms of x ,

(a) the loss of gravitational potential energy of the system, [2]

(b) the work done against the frictional force. [3]

(iii) Show that $21v^2 = 220x$. [2]

- 6 A particle P of mass 0.2 kg is released from a point 7.2 m above the surface of the liquid in a container. P falls through the air and into the liquid. There is no air resistance and there is no instantaneous change of speed as P enters the liquid. When P is at a distance of 0.8 m below the surface of the liquid, P 's speed is 6 m s^{-1} . The only force on P due to the liquid is a constant resistance to motion of magnitude $R \text{ N}$.

(i) Find the deceleration of P while it is falling through the liquid, and hence find the value of R . [5]

The depth of the liquid in the container is 3.6 m . P is taken from the container and attached to one end of a light inextensible string. P is placed at the bottom of the container and then pulled vertically upwards with constant acceleration. The resistance to motion of $R \text{ N}$ continues to act. The particle reaches the surface 4 s after leaving the bottom of the container.

(ii) Find the tension in the string. [4]

[Question 7 is printed on the next page.]

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David Baud



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