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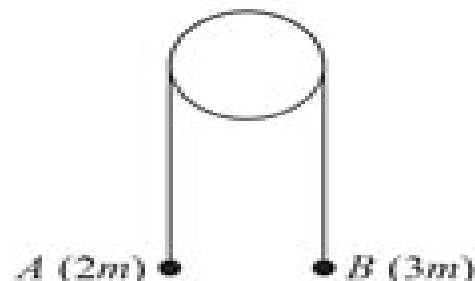


Figure 2

Two particles  $A$  and  $B$  have masses  $2m$  and  $3m$  respectively. The particles are connected by a light inextensible string which passes over a smooth light fixed pulley. The system is held at rest with the string taut. The hanging parts of the string are vertical and  $A$  and  $B$  are above a horizontal plane, as shown in Figure 2. The system is released from rest.

- (a) Show that the tension in the string immediately after the particles are released is  $\frac{12}{5}mg$ .

(6)

After descending 1.5 m,  $B$  strikes the plane and is immediately brought to rest. In the subsequent motion,  $A$  does not reach the pulley.

- (b) Find the distance travelled by  $A$  between the instant when  $B$  strikes the plane and the instant when the string next becomes taut.

(6)

Given that  $m = 0.5$  kg,

- (c) find the magnitude of the impulse on  $B$  due to the impact with the plane.

(2)

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