

- 1 A car of mass 600 kg travels along a straight horizontal road. The resistance to the car's motion is constant and equal to  $R$  N.

(i) Find the value of  $R$ , given that the car's acceleration is  $1.4 \text{ m s}^{-2}$  at an instant when the car's speed is  $18 \text{ m s}^{-1}$  and its engine is working at a rate of 22.5 kW. [4]

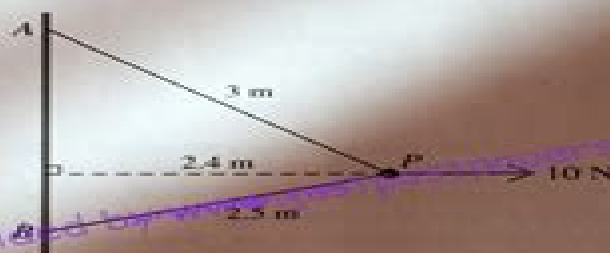
(ii) Find the rate of working of the car's engine when the car is moving with a constant speed of  $15 \text{ m s}^{-1}$ . [1]

- 2 A and B are two points which are 10 m apart on the same horizontal plane. A particle  $P$  starts to move from rest at A, directly towards B, with constant acceleration  $0.5 \text{ m s}^{-2}$ . Another particle  $Q$  is moving directly towards A with constant speed  $0.75 \text{ m s}^{-1}$ , and passes through B at the instant that  $P$  starts to move. At time  $T$  s after this instant, particles  $P$  and  $Q$  collide. Find

(i) the value of  $T$ , [4]

(ii) the speed of  $P$  immediately before the collision. [1]

3



A and B are fixed points of a vertical wall with A vertically above B. A particle  $P$  of mass 0.7 kg is attached to A by a light inextensible string of length 3 m.  $P$  is also attached to B by a light inextensible string of length 2.5 m.  $P$  is maintained in equilibrium at a distance of 2.4 m from the wall by a horizontal force of magnitude 10 N acting on  $P$  (see diagram). Both strings are taut, and the 10 N force acts in the plane  $APB$  which is perpendicular to the wall. Find the tensions in the strings. [6]

- 4 A particle  $P$  moves on a straight line, starting from rest at a point  $O$  of the line. The time after  $P$  starts to move is  $t$  s, and the particle moves along the line with constant acceleration  $\frac{1}{12} \text{ m s}^{-2}$  until it passes through a point  $A$  at time  $t = 8$ . After passing through  $A$  the velocity of  $P$  is  $\frac{1}{2} \text{ m s}^{-1}$ .

(i) Find the acceleration of  $P$  immediately after it passes through  $A$ . Hence show that the acceleration of  $P$  decreases by  $\frac{1}{12} \text{ m s}^{-2}$  as it passes through  $A$ . [4]

(ii) Find the distance moved by  $P$  from  $t = 0$  to  $t = 27$ . [3]

# Maths 2014 Cie June Papers 9709

**Vasco Brattka, Peter Hertling**



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