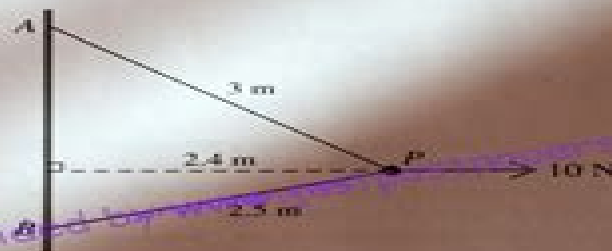


- 1 A car of mass 600 kg travels along a straight horizontal road. The resistance to the car's motion is constant and equal to $R \text{ N}$.
- (i) Find the value of R , given that the car's acceleration is 1.4 m s^{-2} at an instant when the car's speed is 18 m s^{-1} and its engine is working at a 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 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 m s^{-2} . Another particle Q is moving directly towards A with constant speed 0.75 m s^{-1} , and passes through B at the instant that P starts to move. At time $T \text{ s}$ 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 $t \text{ s}$, 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 $\frac{1}{2} t^{\frac{1}{2}} \text{ m s}^{-1}$.
- (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]

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