

Answer all the questions.

- 1 A car has mass 1200 kg. The total resistance to the car's motion is constant and equal to 250 N.

(a) The car is driven along a straight horizontal road with its engine working at 10 kW.

Find the acceleration of the car at the instant that its speed is  $5 \text{ m s}^{-1}$ . [3]

The maximum power that the car's engine can generate is 20 kW.

(b) Find the greatest constant speed at which the car can be driven along a straight horizontal road. [2]

The car is driven up a straight road which is inclined at an angle  $\theta$  above the horizontal where  $\sin \theta = 0.05$ .

(c) Find the greatest constant speed at which the car can be driven up this road. [2]

- 2 The coordinates of two points,  $A$  and  $B$ , are  $(-1, 6)$  and  $(5, 12)$  respectively, where the units of the coordinate axes are metres. A particle  $P$  moves from  $A$  to  $B$  under the action of several forces. The force  $\mathbf{F} = 7\mathbf{i} - 2\mathbf{j}$  N is one of the forces acting on  $P$ .

(a) Calculate the work done by  $\mathbf{F}$  on  $P$  as  $P$  moves from  $A$  to  $B$ . [2]

At the instant when  $P$  reaches  $B$  its velocity is  $-\mathbf{i} - 5\mathbf{j} \text{ m s}^{-1}$ .

(b) Find the power generated by  $\mathbf{F}$  at the instant that  $P$  reaches  $B$ . [2]

One end of a light elastic string was attached to the origin of the coordinate system and the other to  $P$  when  $P$  was at  $A$ , before it moved to  $B$ . The natural length of the string is 8 m and its modulus of elasticity is 24 N.

(c) At the instant that  $P$  reaches  $B$ , find the following.

- The tension in the string
  - The elastic potential energy stored in the string
- [3]

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