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 10kW.

Find the acceleration of the car at the instant that its speed is 5 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 θ 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 F = 7i-2j N is one of the forces acting on P.
 - (a) Calculate the work done by F on P as P moves from A to B. [2]

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

(b) Find the power generated by 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 8m and its modulus of elasticity is 24 N.

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- (c) At the instant that P reaches B, find the following.
 - The tension in the string.
 - The elastic potential energy stored in the string

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