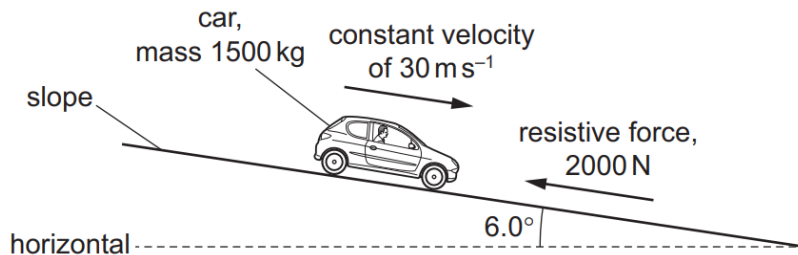


- 9 A car of mass  $1500\text{ kg}$  travels at constant velocity of  $30\text{ m s}^{-1}$  down a slope. The slope is at an angle of  $6.0^\circ$  to the horizontal, as shown.



The magnitude of the total resistive force acting on the car is  $2000\text{ N}$ .

What is the power output of the car's engine?

- A**  $14\text{ kW}$                       **B**  $60\text{ kW}$                       **C**  $110\text{ kW}$                       **D**  $380\text{ kW}$