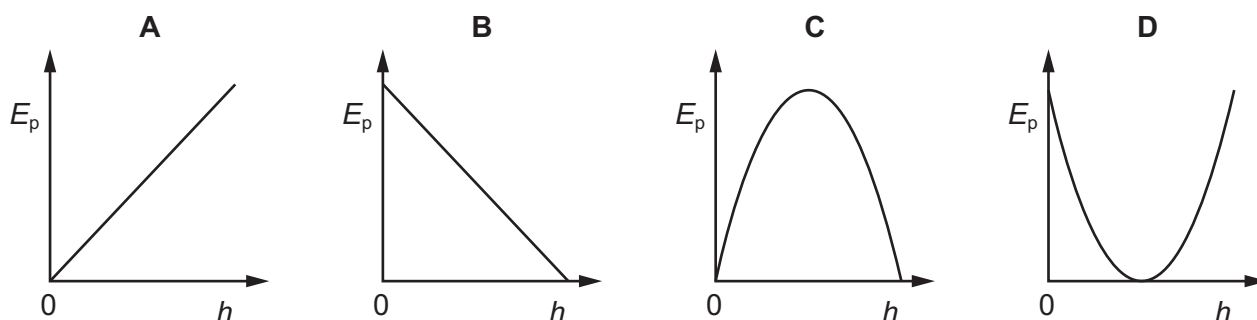


- 17 An object is thrown into the air.

Which graph shows how the gravitational potential energy E_p of the object varies with height h above the ground?



- 18 A car of mass 1800 kg accelerates along a horizontal road so that its speed increases from 20 m s^{-1} to 25 m s^{-1} in a time of 5.4 s.

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

- A** 4.2 kW **B** 38 kW **C** 120 kW **D** 1100 kW

- 19 A variable force is applied to ensure that a constant power is supplied to a train.

Which graph best shows the variation of the force F applied with the velocity v of the train?

