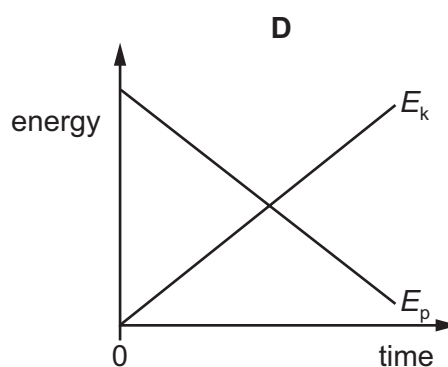
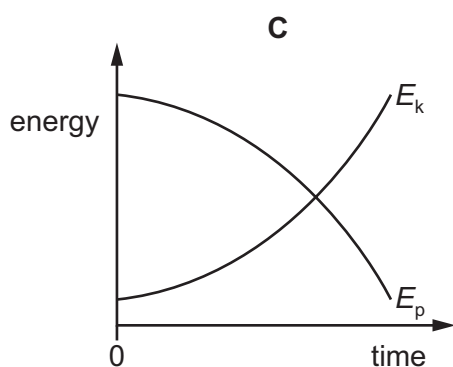
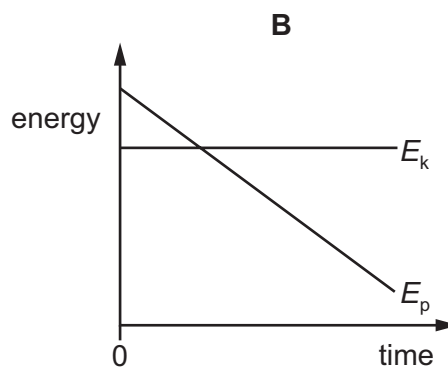
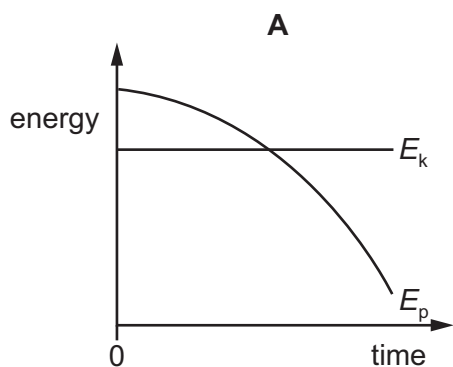


20 A steel ball is falling at constant speed in oil.

Which graph shows the variation with time of the gravitational potential energy E_p and the kinetic energy E_k of the ball?



21 When a force of 0.80 N is applied to a spring, the length of the spring is 90 mm .

When a force of 1.30 N is applied to the same spring, its length is 115 mm .

The spring obeys Hooke's law.

What is the spring constant of the spring?

- A** 8.9 Nm^{-1} **B** 10 Nm^{-1} **C** 11 Nm^{-1} **D** 20 Nm^{-1}