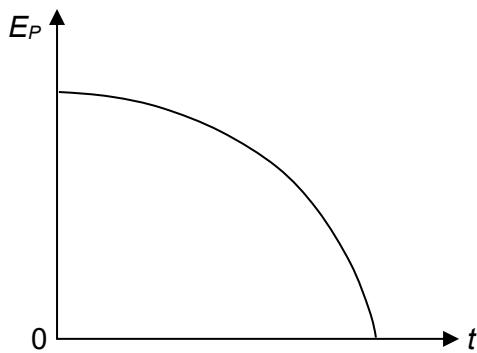


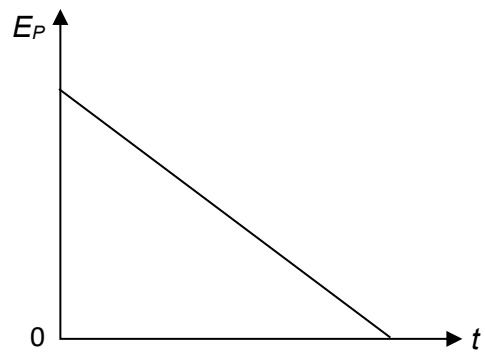
- 6** An object falls freely from rest. After time  $t$ , its displacement from origin is  $s$ .

Which graph(s) shows the correct relationship of how gravitational potential energy  $E$  of the ball varies?

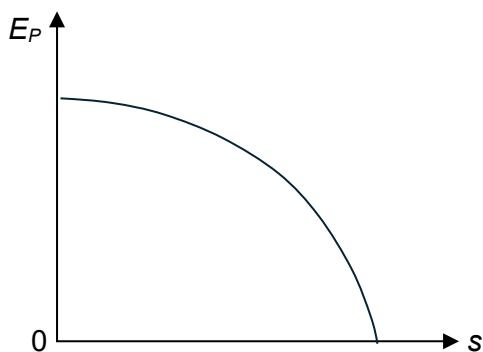
(i)



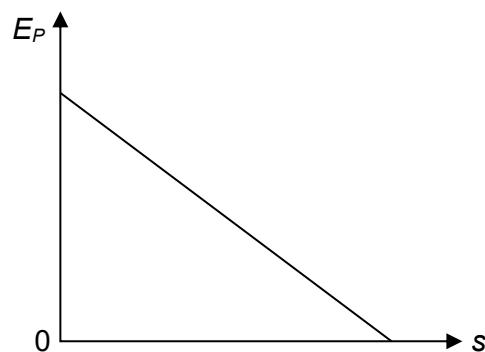
(ii)



(iii)



(iv)



- A** (i) and (iii) only
- B** (i) and (iv) only
- C** (ii) and (iii) only
- D** (ii) and (iv) only