

- 15** In many filament lamps, as much as 92 J of energy is emitted as thermal energy for every 8 J of energy emitted as light.

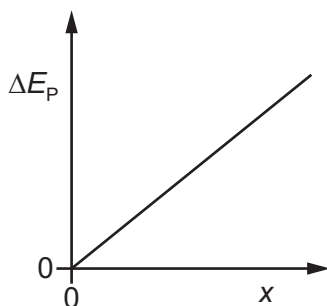
What is the efficiency of a filament lamp, as the percentage of electrical energy converted to light energy?

- A** 8%                      **B** 9%                      **C** 91%                      **D** 92%

- 16** What is a unit of power?

- A**  $\text{JC}^{-1}$                       **B**  $\text{Jm}^{-1}$                       **C**  $\text{JN}^{-1}$                       **D**  $\text{Js}^{-1}$

- 17** An object is in a uniform gravitational field. The graph shows how the change in gravitational potential energy  $\Delta E_p$  of the object varies with the vertical distance  $x$  moved by the object from a fixed point.



Which graph shows how the gravitational force  $F$  acting on the object varies with distance  $x$ ?

