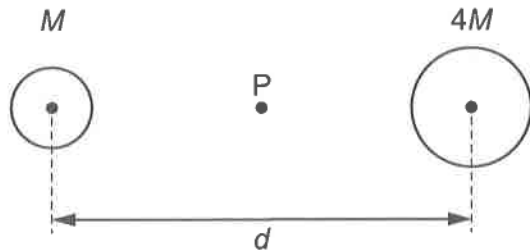


- 10 Two isolated stars, of mass M and $4M$, are separated in space by a distance d between the centres of the stars.



Point P is a point midway between the centres of the two stars.

What is the gravitational potential at P ?

- A** $\frac{-4GM^2}{d}$ **B** $\frac{-6GM}{d}$ **C** $\frac{-8GM^2}{d}$ **D** $\frac{-10GM}{d}$

- 11 A container filled with an ideal gas is at a temperature of 80°C . The root mean square (r.m.s.)