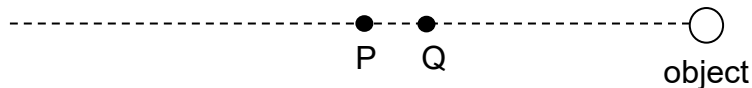


- 10 Two points P and Q are located a fixed distance apart on a straight line joining them to an object considered as a point mass.



The two points P and Q are moved closer to the point mass, while keeping the separation between them constant.

What happens to the magnitudes of their individual gravitational potentials and to the magnitude of the gravitational field strength between the two points?

	magnitudes of gravitational potentials	magnitudes of gravitational field strength difference
A	both decrease	decreases
B	both decrease	increases
C	both increase	stays the same
D	both increase	increases

- 11 A gas molecule of mass m moves with velocity v and collides elastically with a wall perpendicular