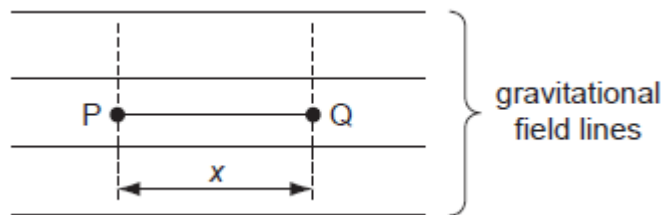


- 11 A mass m is situated in space in a uniform gravitational field.



When the mass moves through a displacement x , from P to Q, it loses an amount of potential energy E .

Which row correctly specifies the magnitude and the direction of the acceleration due to the gravity in this field?

| | magnitude | direction |
|----------|----------------|---------------|
| A | $\frac{E}{x}$ | \rightarrow |
| B | $\frac{E}{x}$ | \leftarrow |
| C | $\frac{E}{mx}$ | \rightarrow |
| D | $\frac{E}{mx}$ | \leftarrow |