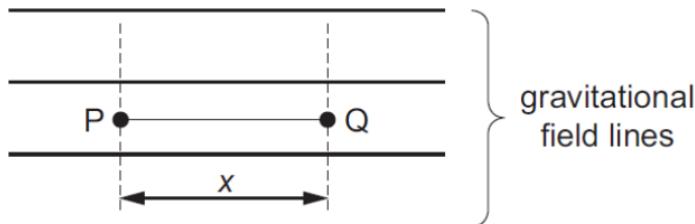


- 12 A mass m is situated in a uniform gravitational field.



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 gravity in this field?

	magnitude	direction
A	$\frac{E}{mx}$	→
B	$\frac{E}{mx}$	←
C	$\frac{E}{x}$	→
D	$\frac{E}{x}$	←

- 13 A fixed amount of an ideal gas has pressure p and volume V . The graph shows the variation