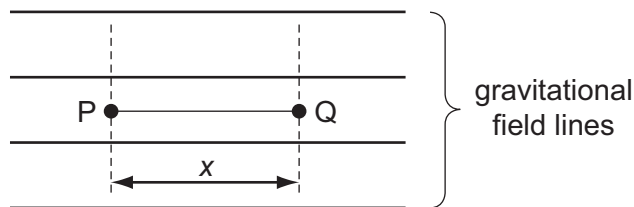


20 A mass m is situated in space in a uniform gravitational field.



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	$\frac{E}{mx}$	\rightarrow
B	$\frac{E}{mx}$	\leftarrow
C	$\frac{E}{x}$	\rightarrow
D	$\frac{E}{x}$	\leftarrow

21 Why does the pressure increase when a cooled container of gas is heated?