1	The SI unit for potential difference (the volt) is given, in base units, by	
	Α	$kg m A^{-1} s^{-3}$.
	В	$m^2 A^{-1} s^{-2}$.
	С	$kg m^2 s^{-2}$.
	D	$kg m^2 A^{-1} s^{-3}$.
2	The product of pressure and volume has the same SI base units as	
	Α	energy.
	В	force.

- $\mathbf{c} = \frac{\text{force}}{\text{area}}.$
- $\mathbf{D} \quad \frac{\text{force}}{\text{length}}.$
- **3** An ion is accelerated by a series of electrodes in a vacuum. A graph of the power supplied to the ion is plotted against time.

What is represented by the area under the graph between two times?

- A the change in kinetic energy of the ion
- B the average force on the ion
- **C** the change in momentum of the ion
- **D** the change in velocity of the ion

Space for working