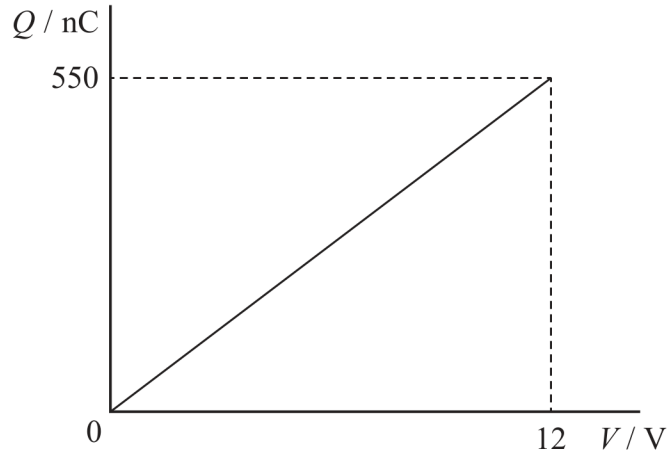
5 The graph shows how the charge Q stored on the plates of a capacitor varies with the potential difference V across the plates.



Which of the following expressions gives the energy, in J, stored by the capacitor when V is 12 V?

☒ **A** $\frac{550}{12}$

☒ **B** $\frac{12}{550 \times 10^{-9}}$

☒ **C** $\frac{550 \times 12}{2}$

☒ **D** $\frac{550 \times 10^{-9} \times 12}{2}$

(Total for Question 5 = 1 mark)

DO NOT WRITE IN THIS AREA