A graph of ln (current) against time is plotted and the gradient of the graph is determined.

10 A charged capacitor is connected across a resistor of resistance R and the current in the

Which of the following gives the capacitance of the capacitor?

$$\triangle$$
 A -gradient $\times R$

resistor is measured.

$$lackbox{B} \quad \frac{-1}{(\mathrm{gradient} \times R)}$$

$$\square$$
 C $\frac{-R}{\text{gradient}}$

$$\square$$
 D $\frac{-\text{gradient}}{P}$