

INFORMATION SHEET 2.

If we take logs [ln] of both sides of the equation

$$V = V_0 e^{\left(\frac{-t}{RC}\right)}$$

we get

$$\ln V = \ln V_0 - \frac{1}{RC} t$$

Compare this with

$$y = mx + c$$

the equation for a straight line graph.

You will need to plot a graph of $\ln V$ on the y -axis against t on the x -axis.