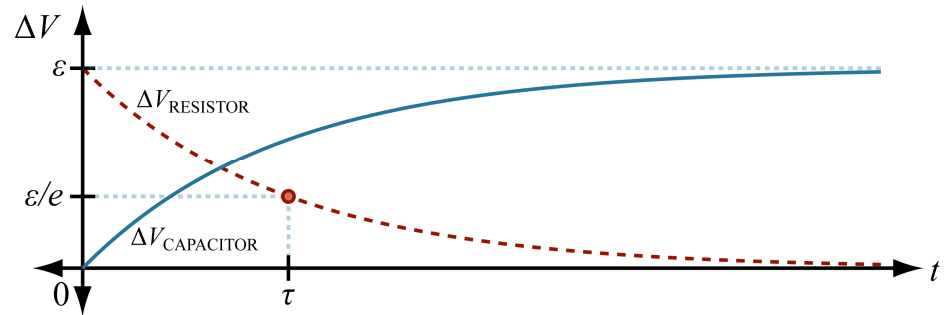
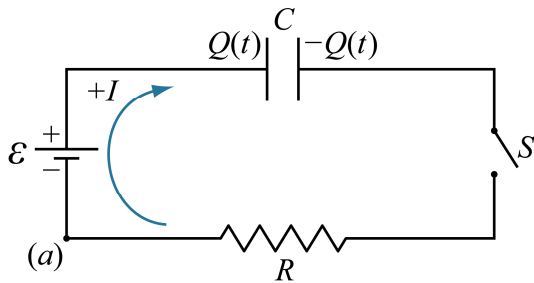


# Mnemonic for exponentially decaying/saturating charge/current

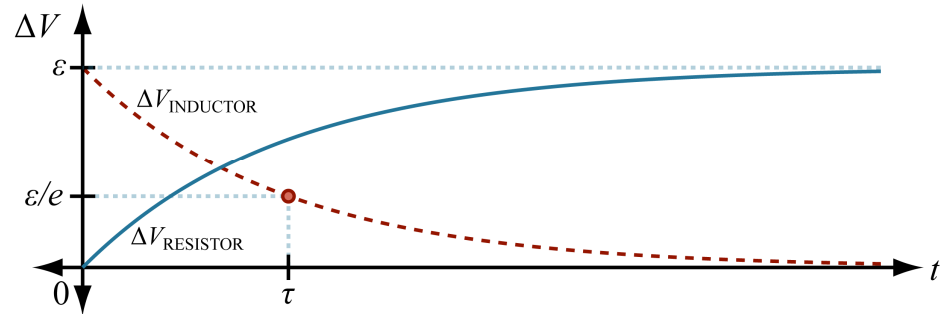
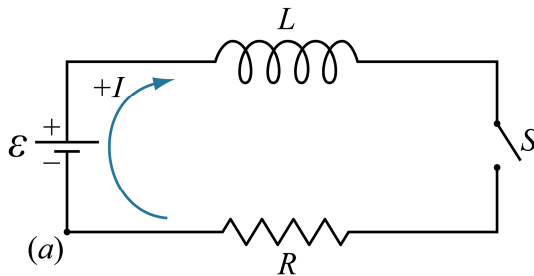
## RC series

$$\tau = RC$$



## LR series

$$\tau = \frac{L}{R}$$



$$y(t) = y_{\max} \left( 1 - e^{-\frac{t}{\tau}} \right)$$

Text color	When to use
Black	Always (both decay and saturation)
Blue	Only for saturation