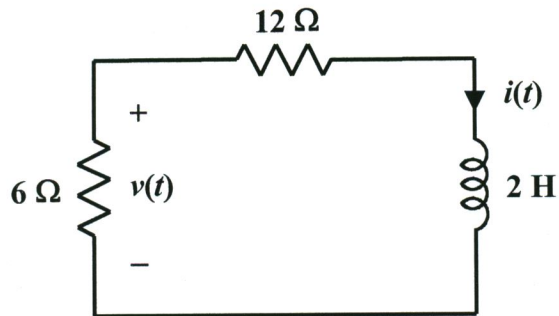


EE 2240
Problem #09

Find $v(t)$ for $t \geq 0$, if $i(0) = 1$ A.



$$\tau = \frac{2\text{H}}{6\Omega + 12\Omega} = \frac{1}{9} \text{ s}$$

$$i(t) = 1e^{-9t} \text{ A}, t \geq 0$$

$$v(t) = -6i(t) = -6e^{-9t} \text{ V}, t \geq 0$$