

EE 2240  
**Problem #02**

Consider the RL circuit shown below, where  $i_L(0) = 3 \text{ mA}$ . The accompanying plot shows the transient response of the circuit. A point on the curve has been labeled, indicating a time and the corresponding inductor current. Determine the value of the inductance,  $L$ , required to make the plot a true representation of the inductor current in this circuit.

