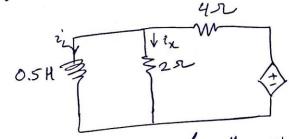
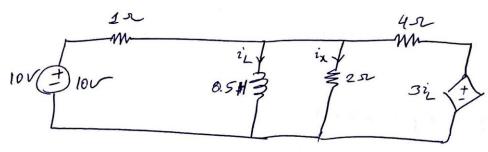
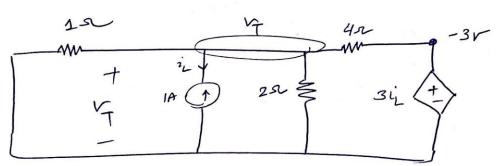
Q4, V2:

For oct<1:



To find Ru of the circuit connected to the





$$i_{L}(t)$$
, $i_{L}(\omega)$ + $(i_{L}(1) - i_{L}(\omega))$ e $-(t-1)/\tau$
 $i_{L}(t)$ = $40 + (20.5367 - 40)$ e $-(t-1)/(0.5/(47))$
 $\Rightarrow i_{L}(t)$ = $40 - 19.4633$ e $-\frac{t-1}{3.5}$
 $i_{L}(t)$ = $40 - 25.9001$ e $-\frac{t}{3.5}$
 $i_{L}(t)$ = 1.85 e $-\frac{t}{3.5}$
 $i_{L}(t)$ = 1.85 e $-\frac{t}{3.5}$