

ECE 113: Basic Electronics Re Quiz-1

Duration: 25 Minutes

Total Points: 15

Question -1: The current flowing through an element is given by $i(t) = x(-2t+1)$. How much charge is transported through the element, for all over time period? **(5 Points)**

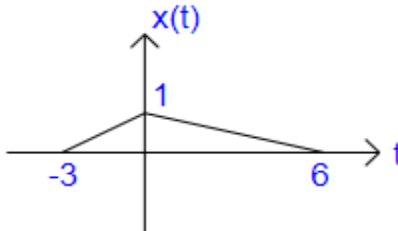


Figure 1

Question -2: In the given following circuit if $R_a = 5 \text{ ohm}$, $R_b = 15 \text{ ohm}$ & $R_c = 10 \text{ ohm}$ then find the equivalent resistance and current through the source. **(5 Points)**

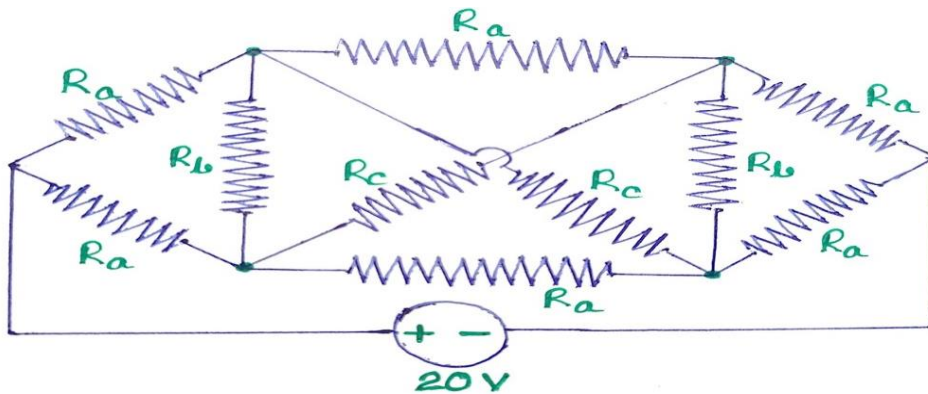


Figure 2

Question -3: In the given following circuit find the value of voltage and current across 4 ohm resistance. **(5 Points)**

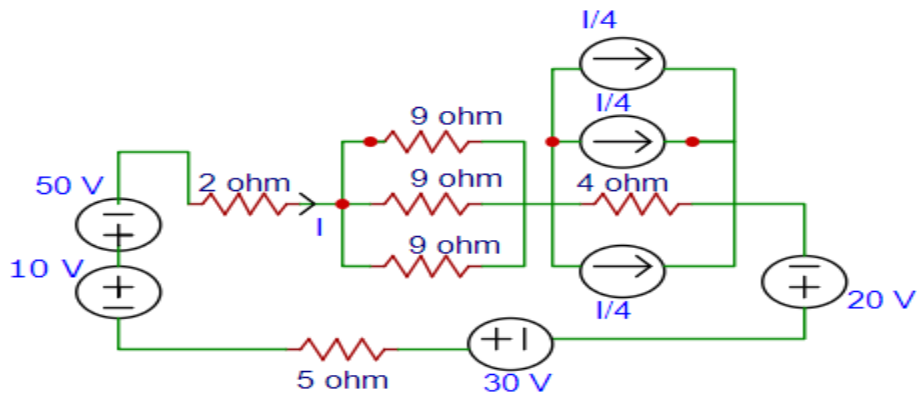


Figure 3