

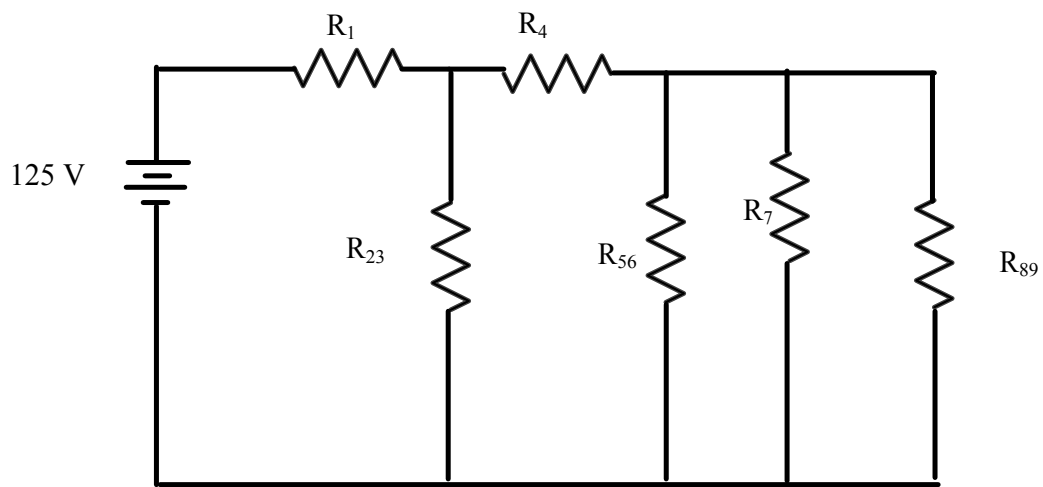
$$R_1 = R_2 = R_3 = 10.0 \, \Omega$$

$$R_4 = R_5 = 15.0 \, \Omega$$

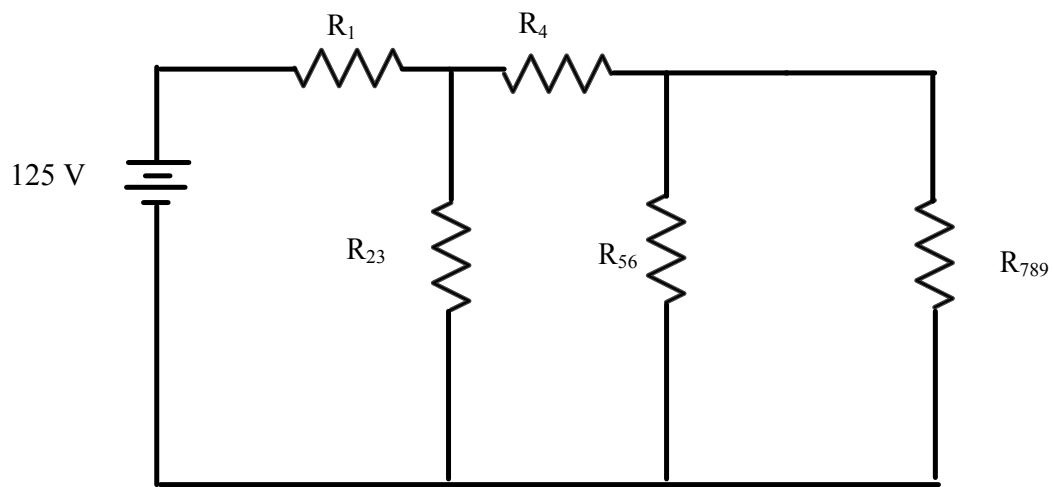
$$R_6 = R_7 = R_8 = 25.0 \, \Omega$$

$$R_9 = 50.0 \, \Omega$$

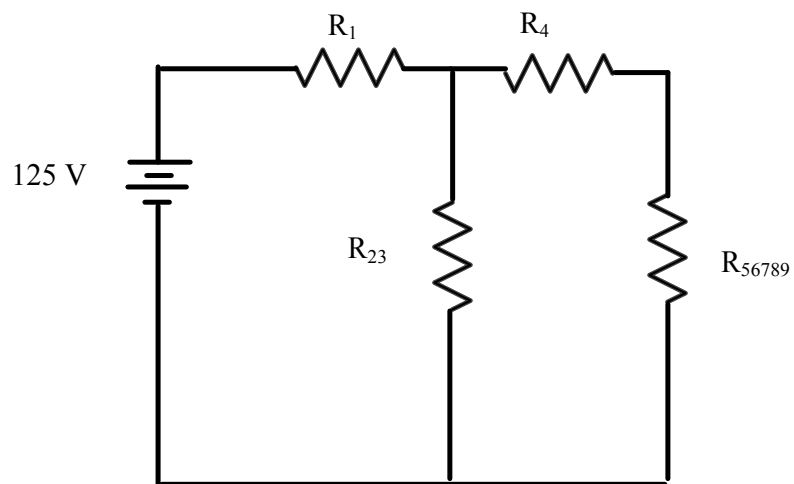
Find R_t, I_t , and I_3, I_5, I_7, V_4, V_6 and V_9



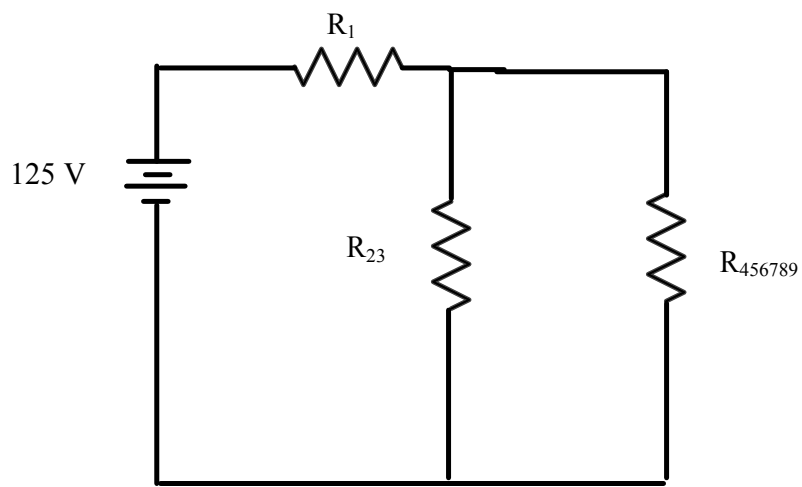
$R_{23} = 20$ ohms
 $R_{56} = 40$ ohms
 $R_{89} = 16.7$ ohms



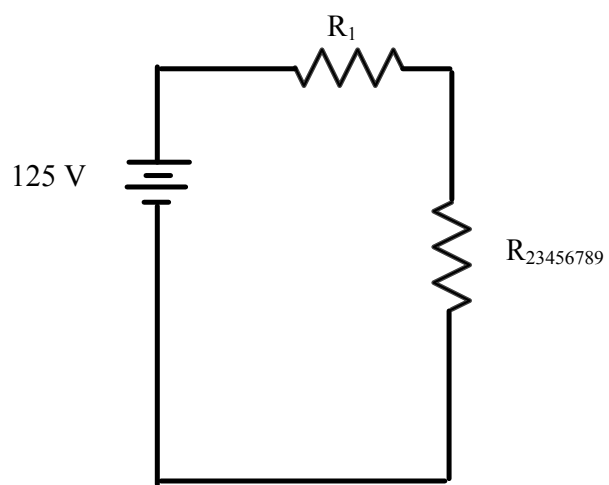
$$R_{789} = 10.0 \text{ ohms}$$



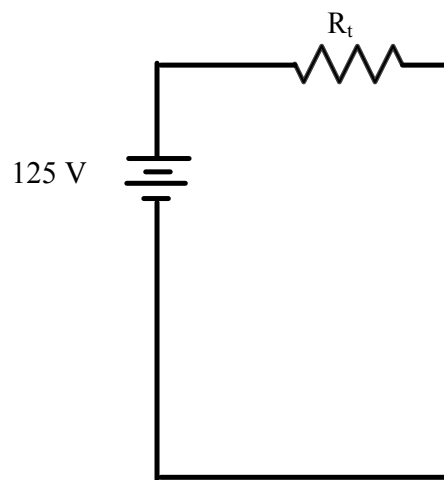
$$R_{56789} = 8.0 \text{ ohms}$$



$$R_{456789} = 23.0 \text{ ohms}$$



$$R_{23456789} = 10.7 \text{ ohms}$$



$$R_t = 20.7 \text{ ohms}$$

$$I_t = V_t / R_t = 125 \text{ V} / 20.7 = 6.04 \text{ amps}$$