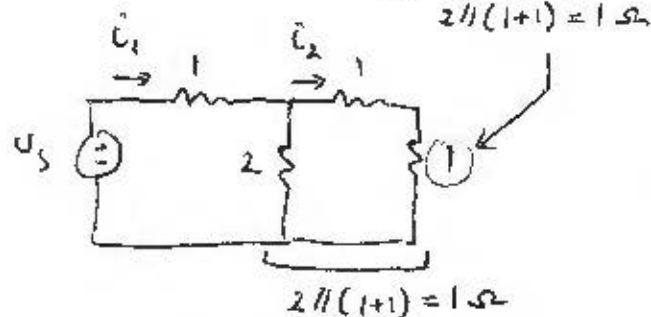
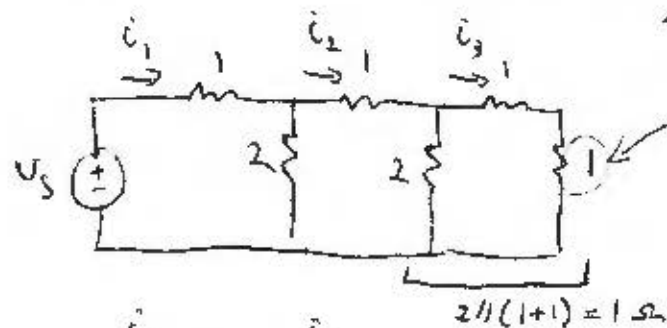
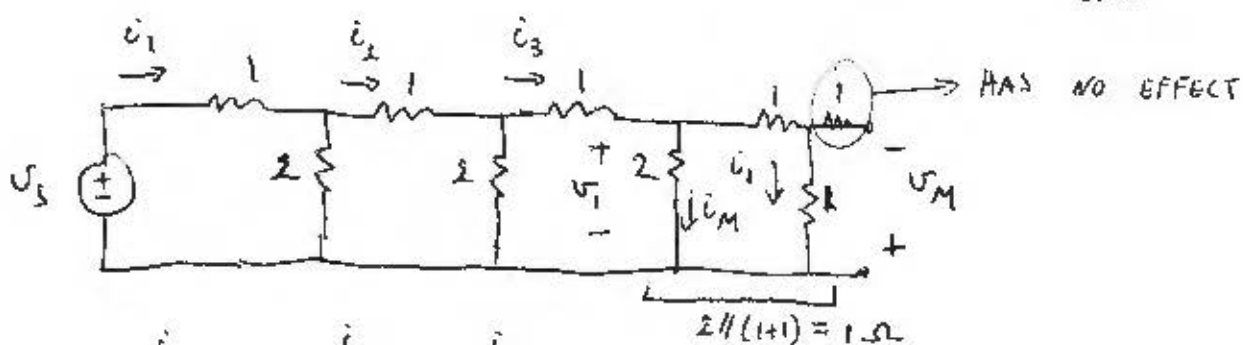
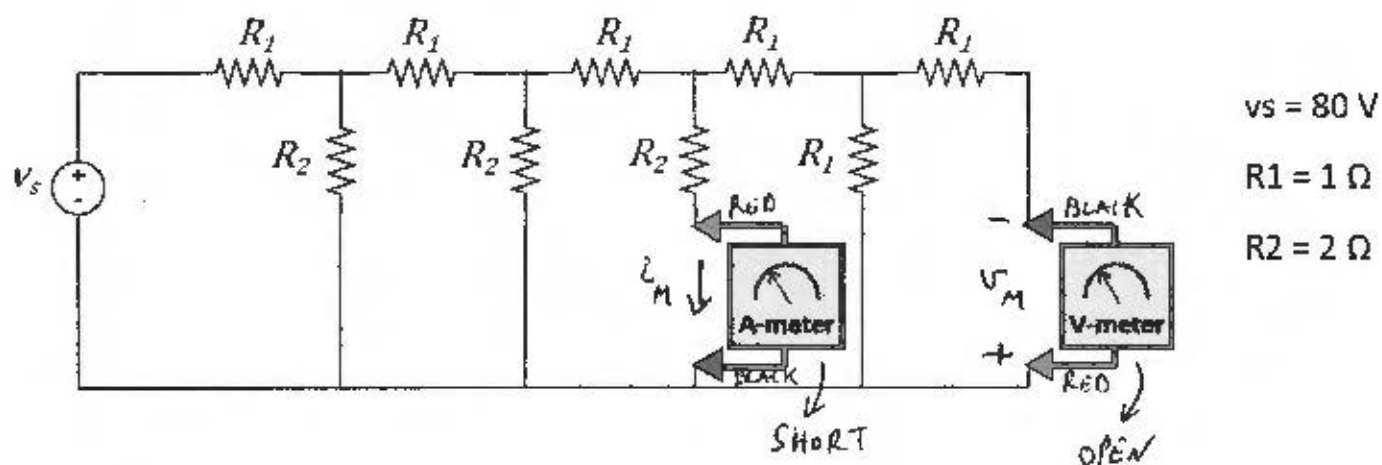


Find the ammeter reading  $X$  and the volt-meter reading  $Y$ .



$$i_1 = \frac{V_s}{1+1} = 40$$

$$i_2 = i_1 \cdot \frac{2}{2+2} = 20 \quad (\text{CURRENT DIVIDER})$$

$$i_3 = i_2 \cdot \frac{2}{2+2} = 10 \quad (\text{CURRENT DIVIDER})$$

$$i_M = i_3 \cdot \frac{2}{2+2} = 5 \quad (\text{CURRENT DIVIDER})$$

$$X = 5 \text{ A}$$

$$V_1 = 2 \cdot i_M = 10$$

$$V_1 = i_M = 5 \Rightarrow -V_M = 1 \cdot i_1 = 5$$

$$Y = -5 \text{ V}$$