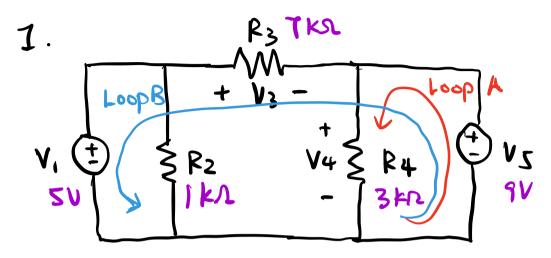
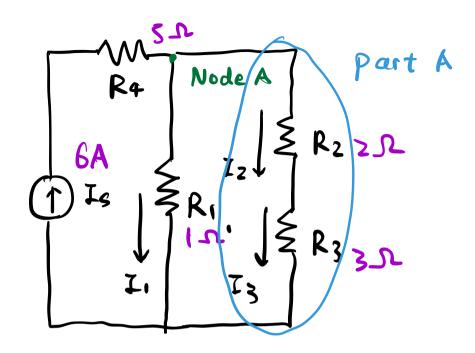
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From kirchhoff Voltage law, we know:

2.



Since Rz and Rz are in series, we know RA = Rz+Rz = 5.1. We see that part A and R1 are in parallel, thus we know:

$$\int Is = I_1 + I_2$$

$$\int RAI_2 = P_1I_1$$

$$\Rightarrow \begin{cases} I_2 \cdot S_2 = I_1 \cdot I_2 \\ I_3 \cdot S_4 = I_4 \cdot I_4 \end{cases}$$

$$= \begin{cases} I_1 = 5A \\ I_2 = 1A \end{cases}$$