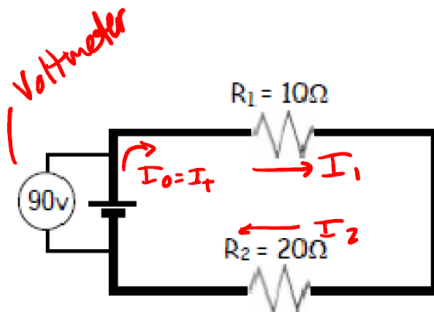


### 6.3 Series Circuits

1.

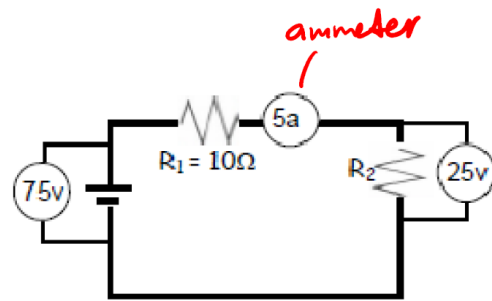


$$R_T = \underline{30\Omega} \quad I_T = \underline{3A}$$

$$I_1 = \underline{3A} \quad I_2 = \underline{3A}$$

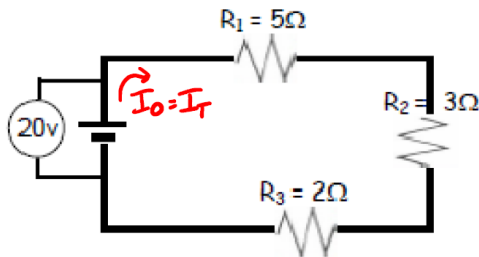
$$V_1 = \underline{30V} \quad V_2 = \underline{60V}$$

2.



$$V_1 = \underline{50V} \quad I_2 = \underline{5A} \quad R_2 = \underline{5\Omega}$$

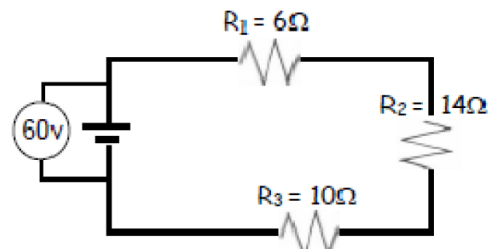
3.



$$R_T = \underline{10\Omega} \quad I_T = \underline{2A}$$

$$V_1 = \underline{10V} \quad V_2 = \underline{6V} \quad V_3 = \underline{4V}$$

4.

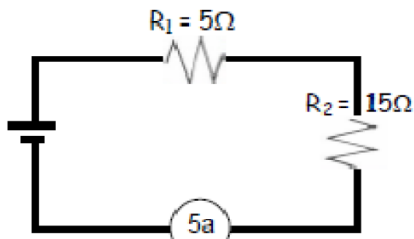


$$R_T = \underline{30\Omega} \quad I_T = \underline{2A}$$

$$I_1 = \underline{2A} \quad I_2 = \underline{2A} \quad I_3 = \underline{2A}$$

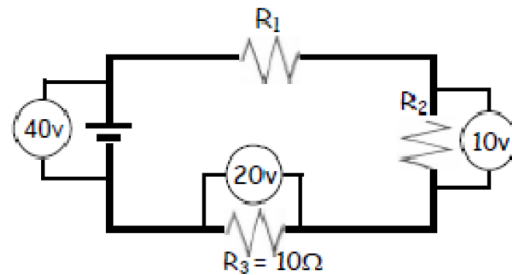
$$V_1 = \underline{12V} \quad V_2 = \underline{28V} \quad V_3 = \underline{20V}$$

5.



$$V_1 = \underline{25V} \quad V_2 = \underline{75V} \quad V_T = \underline{100V}$$

6.



$$I_3 = \underline{2A} \quad I_1 = \underline{2A} \quad V_1 = \underline{10V}$$

$$R_1 = \underline{5\Omega} \quad R_2 = \underline{5\Omega}$$