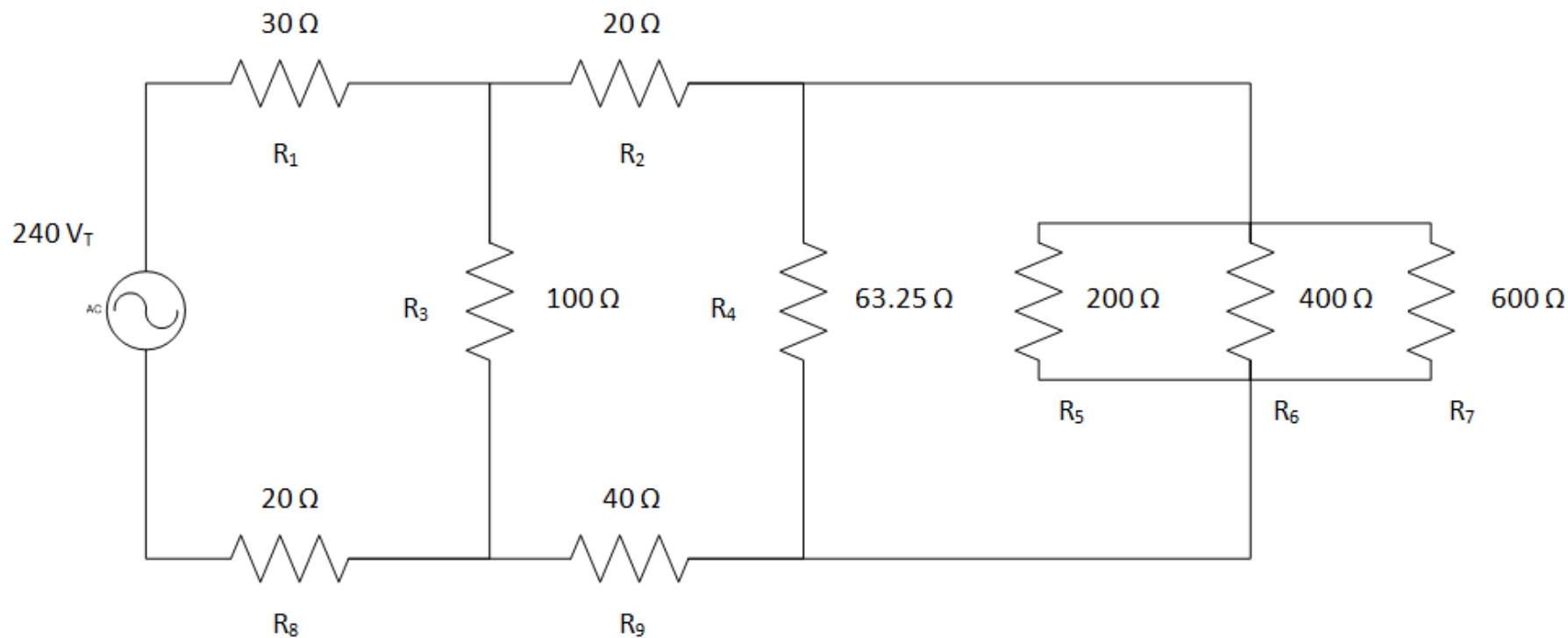


## Resistive Circuit Ex #17 ~ Answers

April-08-13

Find Voltage, Resistance & Current Flow for Each Element

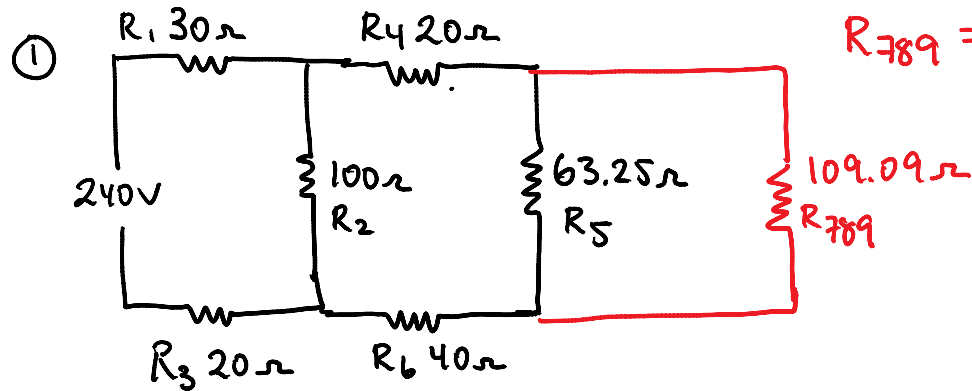


Find V<sub>T</sub>, R<sub>T</sub> and I<sub>T</sub> as well as Voltage, Resistance and Current Values for each resistor.

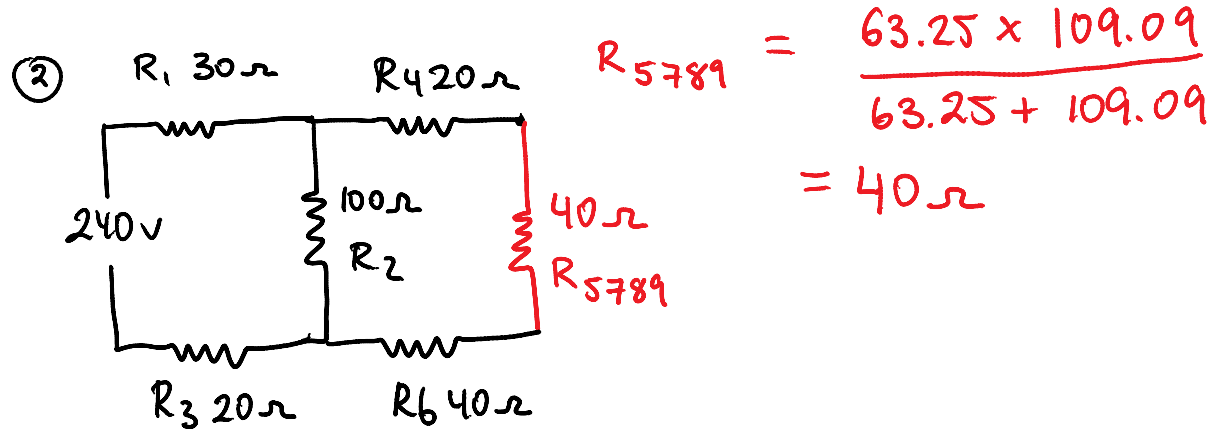
## Resistive Circuit Ex #17 ~ Answers

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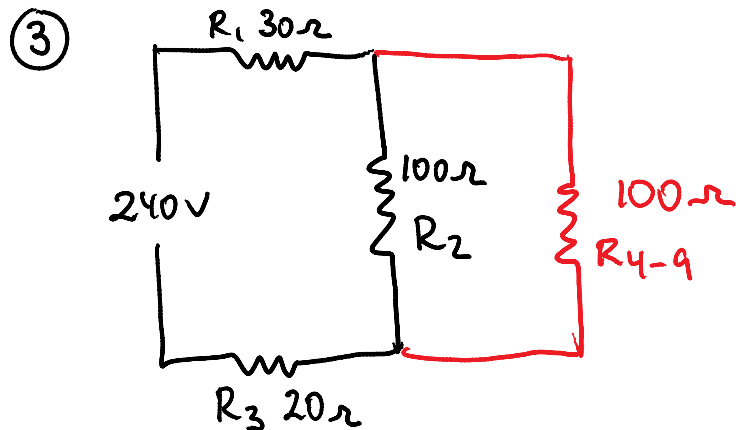
Find Voltage, Resistance & Current Flow for Each Element



$$R_{789} = \frac{1}{\frac{1}{200} + \frac{1}{400} + \frac{1}{600}} = 109.09\Omega$$



$$R_{5789} = \frac{63.25 \times 109.09}{63.25 + 109.09} = 40\Omega$$

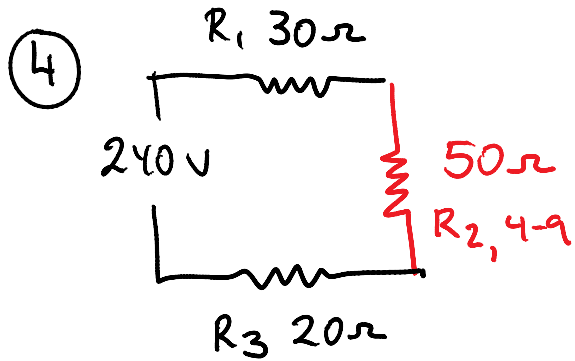


$$R_{4-9} = 20\Omega + 40\Omega + 40\Omega = 100\Omega$$

## Resistive Circuit Ex #17 ~ Answers

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Find Voltage, Resistance & Current Flow for Each Element



$$R_{2,4-g} = \frac{100\Omega}{2} = 50\Omega$$

⑤

$$R_T = 30\Omega + 50\Omega + 20\Omega$$
$$R_T = 100\Omega$$

## Resistive Circuit Ex #17 ~ Answers

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