

COMBINED SERIES-PARALLEL CIRCUIT EXAMPLE

GIVEN: Consider the circuit shown, where

$$R_1 = 20\Omega$$

$$R_2 = 20\Omega$$

$$R_3 = 5\Omega$$

$$R_4 = 10\Omega$$

$$R_5 = 15\Omega$$

$$R_6 = 25\Omega$$

$$R_7 = 100\Omega$$

$$V_{\text{batt}} = 120\text{V}$$

REQUIRED:

- The current leaving the battery.
- The power supplied by the battery.
- The voltage across R_2 .

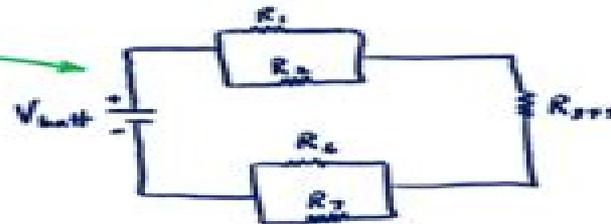
SOLUTION:

- First, combine the three resistors that are in series.

$$R_{3+4+5} = R_3 + R_4 + R_5 = 5\Omega + 10\Omega + 15\Omega$$

$$\underline{R_{3+4+5} = 30\Omega}$$

We can now redraw the circuit as shown.

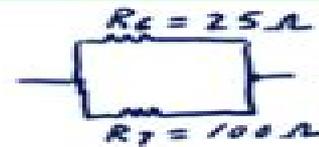


We can now combine all resistors in parallel. By inspection, we note that R_1 and R_3 are in parallel, and R_6 and R_7 are in parallel.



$$R_{1,2} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2}} = \frac{1}{\frac{1}{20\Omega} + \frac{1}{20\Omega}} = \frac{1}{\frac{2}{20\Omega}}$$

$$\underline{R_{1,2} = 10\Omega}$$



$$R_{6,7} = \frac{1}{\frac{1}{R_6} + \frac{1}{R_7}} = \frac{1}{\frac{1}{25\Omega} + \frac{1}{100\Omega}} = \frac{1}{\frac{5}{100\Omega}}$$

$$\underline{R_{6,7} = 20\Omega}$$

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DC/AC Electrical Fundamentals Dale R. Patrick, Stephen W. Fardo, Ray Richardson, Vigyan (Vigs) Chandra, 2024-02-09 This book explores many essential topics in a basic and easy to understand manner This book and the accompanying **Electronic Devices and Circuit Fundamentals** have been modified with significant updates in content The books are developed using a classic textbook **Electricity and Electronics A Survey** 5th Edition as a framework Both new books have been structured using a similar sequence and organization as previous editions The previous edition of **Electricity and Electronics A Survey** contained 18 chapters 8 in the Electricity section and 10 in the Electronics section This book has been expanded to include 19 chapters further simplifying content and providing a more comprehensive coverage of the content The content has been continually updated and revised through new editions and by reviewers over the years Additional quality checks to ensure technical accuracy clarity and coverage of content have always been an area of focus Each edition of the text has been improved through the following features Improved and updated text content Improved usage of illustrations and photos Use of color to add emphasis and clarify content

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