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# Technician Question Pool

## July 2018 to June 2022

### The MORE Project

<http://n2re.org/m-o-r-e-project>

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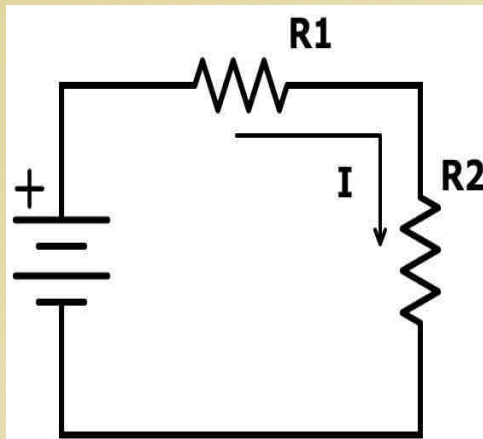


# Electrical Principles

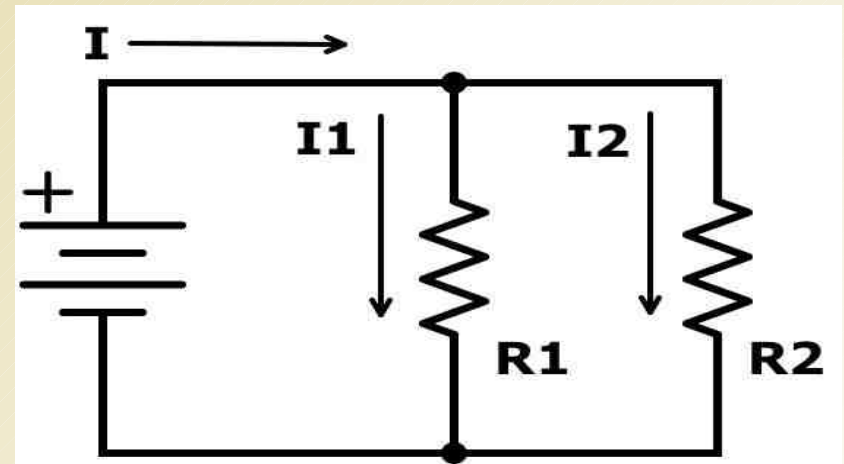
## No-Nonsense pages 9-10

### Series & Parallel Circuits

Resistors in series:



Resistors in parallel:



# T5A13

In which type of circuit is current the same through all components?

- A. Series
- B. Parallel
- C. Resonant
- D. Branch



EP3 Q1 of 6

FCC Tech 7/18 to 6/22  
Series & Parallel Circuits

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# T5A13

In which type of circuit is current the same through all components?

- A. Series
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# T5D13

What happens to current at the junction of two components in series?

- A. It divides equally between them
- B. It is unchanged
- C. It divides based on the value of the components
- D. The current in the second component is zero



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# T5D13

What happens to current at the junction of two components in series?

A. It divides equally between them

**B. It is unchanged**

C. It divides based on the value of the components

D. The current in the second component is zero



# T5D15

What is the voltage across each of two components in series with a voltage source?

- A. The same voltage as the source
- B. Half the source voltage
- C. It is determined by the type and value of the components
- D. Twice the source voltage



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# T5D15

What is the voltage across each of two components in series with a voltage source?

- A. The same voltage as the source
- B. Half the source voltage
- C. It is determined by the type and value of the components**
- D. Twice the source voltage





# T5A14

In which type of circuit is voltage the same across all components?

- A. Series
- B. Parallel
- C. Resonant
- D. Branch



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# T5A14

In which type of circuit is voltage the same across all components?

- A. Series
- B. Parallel**
- C. Resonant
- D. Branch



# T5D16

What is the voltage across each of two components in parallel with a voltage source?

- A. It is determined by the type and value of the components
- B. Half the source voltage
- C. Twice the source voltage
- D. The same voltage as the source



EP3 Q5 of 6

# T5D16

What is the voltage across each of two components in parallel with a voltage source?

- A. It is determined by the type and value of the components
- B. Half the source voltage
- C. Twice the source voltage
- D. The same voltage as the source**



# T5D14

What happens to current at the junction of two components in parallel?

- A. It divides between them dependent on the value of the components
- B. It is the same in both components
- C. Its value doubles
- D. Its value is halved



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# T5D14

What happens to current at the junction of two components in parallel?

- A. It divides between them dependent on the value of the components**
- B. It is the same in both components
- C. Its value doubles
- D. Its value is halved





A non-profit initiative by the IEEE and ARDC to increase the numbers of youth (12-18) and non-males in Amateur Radio. Participants earn FCC licenses and receive free 2-way radios.

For MORE information: [n2re.org/m-o-r-e-project](http://n2re.org/m-o-r-e-project)  
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