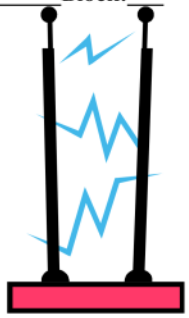
October 14, 2022 8:43 AM

Name: _____ Date: _____ Block: ___

Calculating Voltage in Series



Circle the best term in the parentheses to correctly complete each statement.

1. A series circuit has (*more than one, only one*) path for current to travel.

2. If two different resistors are connected in series, the voltage across one resistor will be (*equal to, different from*) the voltage across the second resistor.

3. The sum of the voltages across each of the resistors in a series circuit is (*equal to, different from*) the total voltage supplied by the battery.

Energy

Find the unknown voltage at V in each of the following circuits.

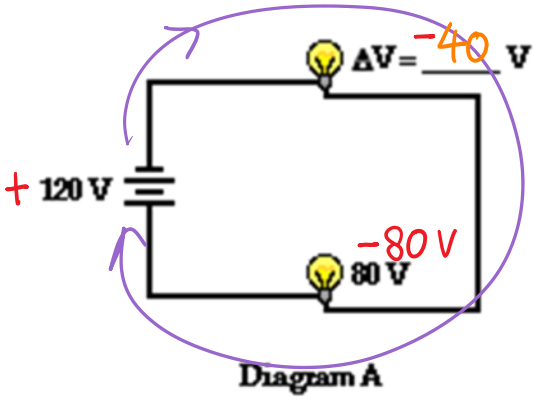


Diagram A

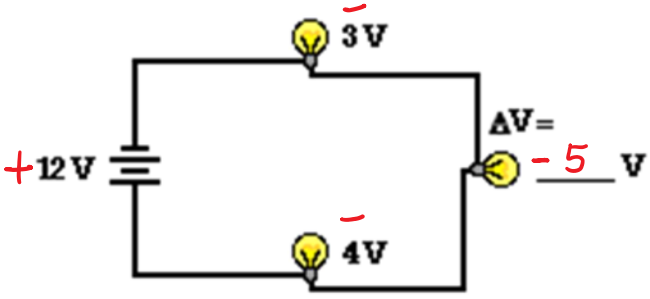
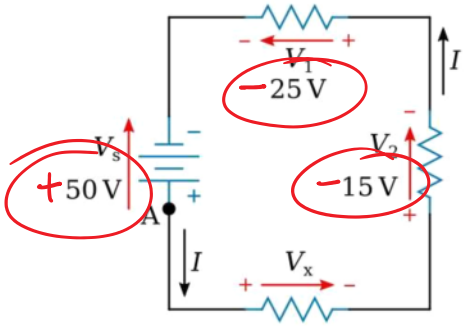


Diagram B



Vx = -10 V

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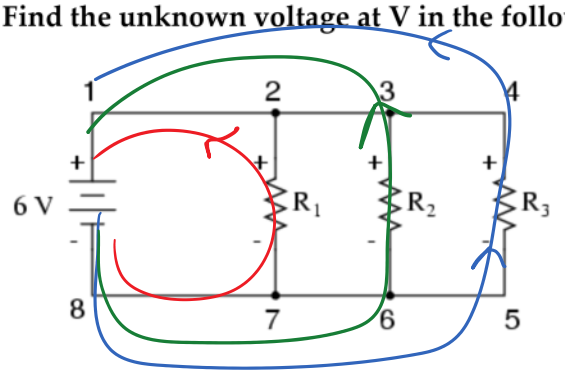
Calculating Voltage in Parallel

Circle the best term in the parentheses to correctly complete each statement.

1. A parallel circuit has (*only one*, *more than one*) path for current to travel.

2. If two different resistors are connected in parallel, the voltage across one resistor will be (*equal to*, *different from*) the voltage across the second resistor.

Find the unknown voltage at V in the following circuits.



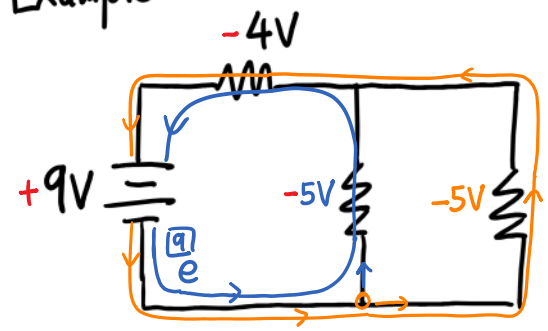
V1= 6V

V2= 6V

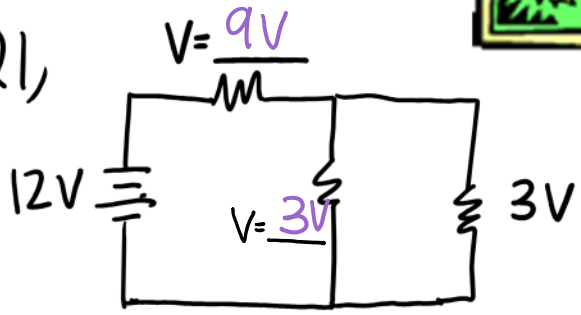
V3= 6V

Calculating Voltage in Mixed Circuit

Example



Q1,



Q2)