

Science

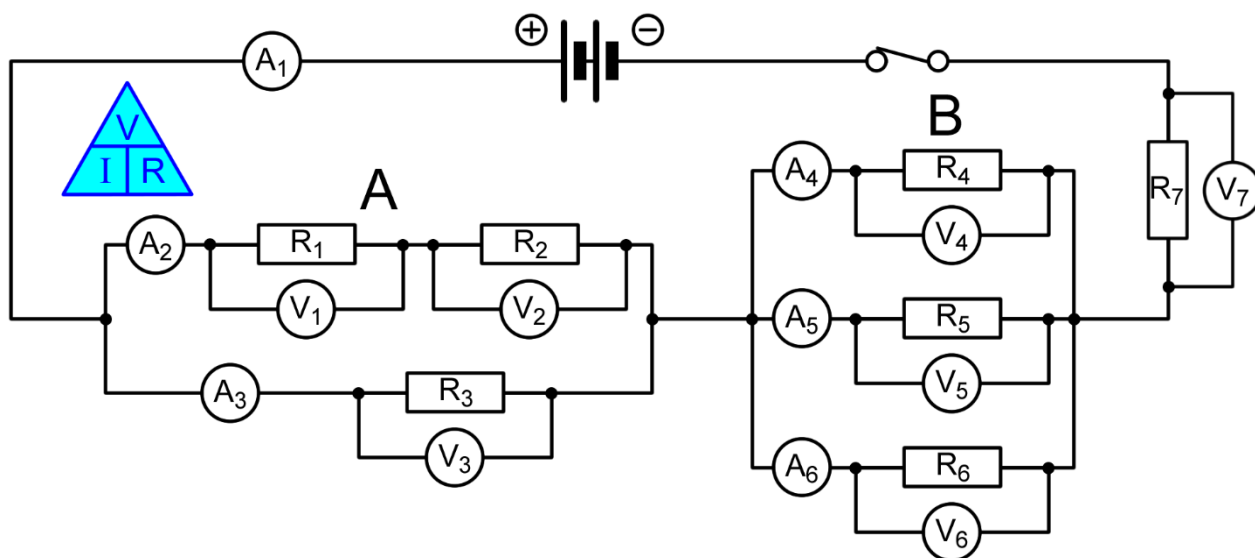
Name: ()

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Resistors in Series and Parallel – Complex

Question One:



Battery = 26 V $R_1 = 25 \Omega$ $R_2 = 50 \Omega$ $R_3 = 40 \Omega$ $R_4 = 80 \Omega$ $R_5 = 10 \Omega$ $R_6 = 5 \Omega$ $R_7 = 100 \Omega$

- Calculate the resistance through part **A** and part **B** of the circuit, and hence calculate the total resistance through the circuit, *i.e.* the value for R_e .
- Calculate the current through the main circuit, *i.e.* the value on A_1 .
- Calculate the potential difference across part **A** and across part **B** of the circuit, and across R_7 (*i.e.* the reading on V_7).
- Calculate the current across R_1 to R_6 , *i.e.* the readings on A_2 to A_6 .

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- Scan the QR code below for the answers to this assignment.



http://www.nygh.sg/lower_secondary_science/sec_two_science/sec_two_physics/resistors_complex_answers.pdf