

Lab assignment 04

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Superposition

Exercise 1 - Superposition

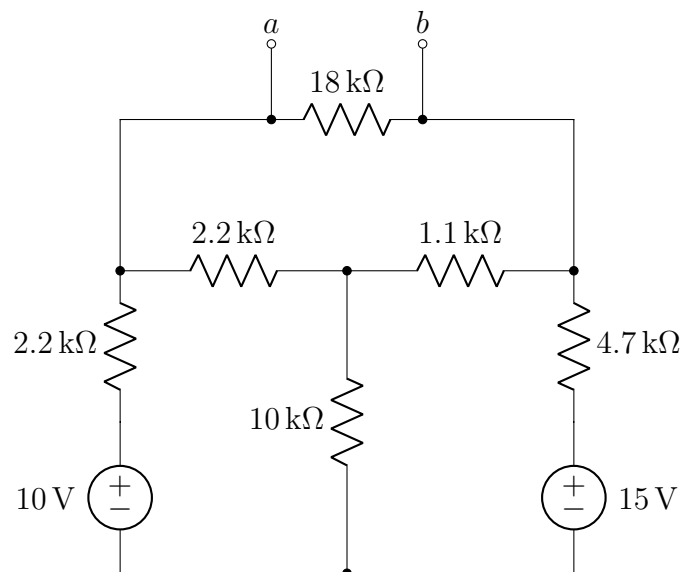
When a source is turned off, the following logic is applied:

- a current source is replaced by an open circuit
- a voltage source is replaced by a short-circuit

Experiment ($V_s = 5\text{ V}$, $I_s = 4\text{ mA}$):

- Wire the circuit on the breadboard by turning off one of the sources.
- Measure V_R with a multimeter.
- Do it again by turning off the other source this time.
- **Conclusion?**

Exercise 2 - Superposition



- Wire the circuit on the breadboard and measure the voltage V_{ab}
- Use superposition theorem experimentally and verify that it works for V_{ab}
- Check the result on CircuitLab