

Kirchhoff's rules (Junction and loop)

You will receive no credit for items you complete after the assignment is due

Read and study section 26-3 to know Kirchhoff's junction rule and loop rule

Questions to hand in.

1. State Kirchhoff's junction rule?
2. What is the underlying physical basis for the junction rule?
3. State the Kirchhoff's loop rule?
4. What is the underlying physical basis for the loop rule?
5. You measure in an electrical loop all voltages going around it, 12V, -3V, -5V and -5V.

What can you say about these values you measured using Kirchhoff's rules.

Problem(s)

Add the following problem to your lab report...SHOW ALL WORK IN APPLYING KIRCHHOFF'S RULES.

P1. Refer to figure 26-49 in your text book page 701.

- a) Set up three equations derived from Kirchhoff's rules.
- b) Solve for I_1 , I_2 & I_3 show all work either algebra or determinates used.