

PHYSICAL SCIENCES

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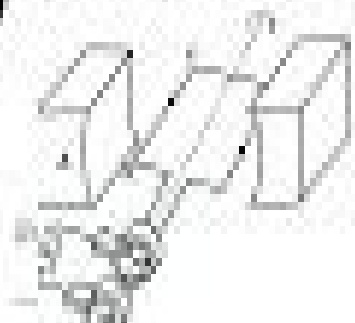


Figure 1: A circuit with two parallel branches. The battery has an EMF of 12 V and an internal resistance of 1 Ω. A switch S is in series with the battery. A voltmeter V is connected in parallel across the battery terminals. The first parallel branch contains a 4 Ω resistor and an ammeter A₁ in series. The second parallel branch contains an ammeter A₂ in series with a 12 Ω resistor. After the parallel branches, there is a 12 Ω resistor in series with a voltmeter V₂ connected in parallel across it.

- 1.1 (4 marks)
- 1.1.1 Calculate the potential difference across the voltmeter V.
- 1.1.2 Calculate the current through the 12 Ω resistor in the voltmeter V₂ branch.



- 2.1 (2 marks)
- 2.1.1 Calculate the force F.
- 2.1.2 Calculate the torque due to the weight about the pivot.



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Physical Science Memo For 2paper 2

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