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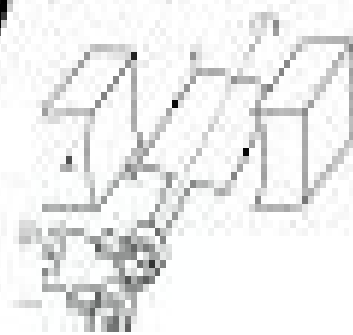


Figure 1 is a circuit diagram used for Question 1. The circuit is connected with the switch S closed.

- 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) Calculate the moment of the 10 N weight about the pivot.
- 2.2 (2 marks) Calculate the magnitude of the force F required to keep the beam in equilibrium.



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Physical Science Exemplar Paper Memo 2014

Katrin Zwirgmaier



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