

# PHYSICAL SCIENCES

## PAPER 1

## MAY-JUNE

## MEMO

# 2025



Figure 1 is a circuit diagram used for Question 1. The voltmeter is connected in parallel with the battery.

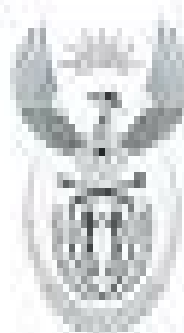
1.1 (4 marks)  
State the meaning of potential difference across a component.  
Answer: The difference in potential energy per unit charge between two points in the circuit.



- 1.1 (4 marks)  
State the meaning of potential difference across a component.
- 1.2 (4 marks)  
Calculate the value of the force F.



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**J Rink**



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web the sector has the same area as the sector we calculated earlier due to it again being a  $60^\circ$  sector with sides of 4cm its area is therefore  $8\pi \text{ cm}^2$  the triangle's area can be calculated using the formula  $\frac{1}{2}ab \sin c$  triangle area  $\frac{1}{2} \times 4 \times 4 \times \sin 60^\circ = \frac{1}{2} \times 16 \times \frac{\sqrt{3}}{2} = 4\sqrt{3} \text{ cm}^2$  note that we should remember that  $\sin 60^\circ = \frac{\sqrt{3}}{2}$