

Physics

Advanced

PAPER 1: Advanced Physics I

Friday 23 May 2025 – Morning

Time: 1 hour 45 minutes

Diagram Booklet

THIS DOCUMENT **MUST** BE RETURNED TO
PEARSON AT THE END OF THE EXAMINATION

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

INSTRUCTIONS

There may be spare copies of some diagrams.

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Turn over

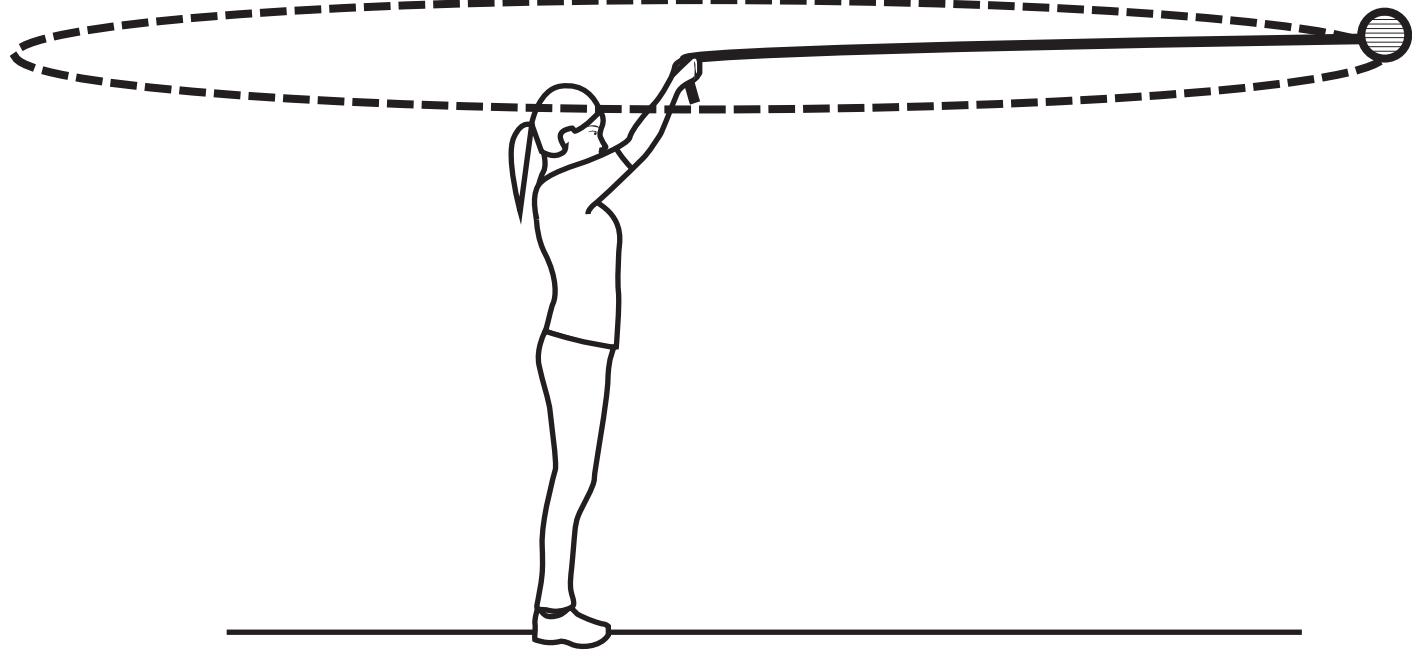
CONTENTS continued.**Spare Copies**

23 Question 11(a) – Spare copy

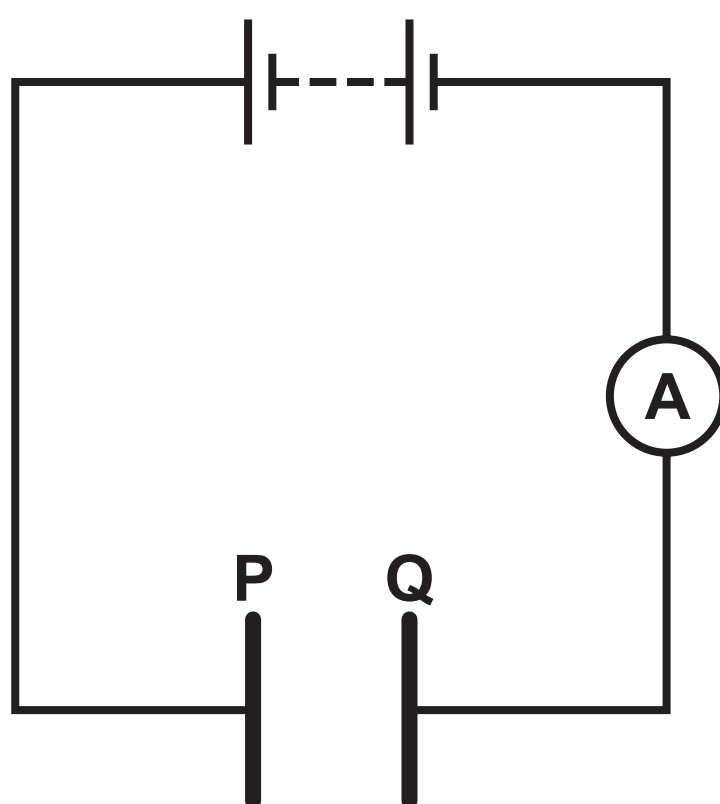
24 Question 13(a) – Spare copy

25 Question 14(a) – Spare copy

26 Question 15(a) – Spare copy

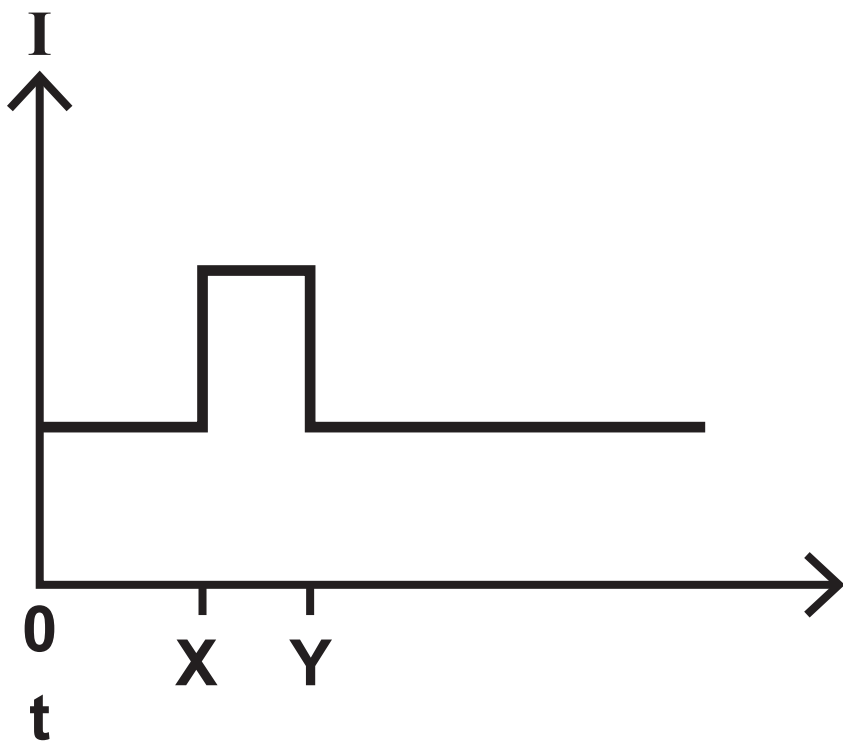
Question 3

Questions 6 and 7

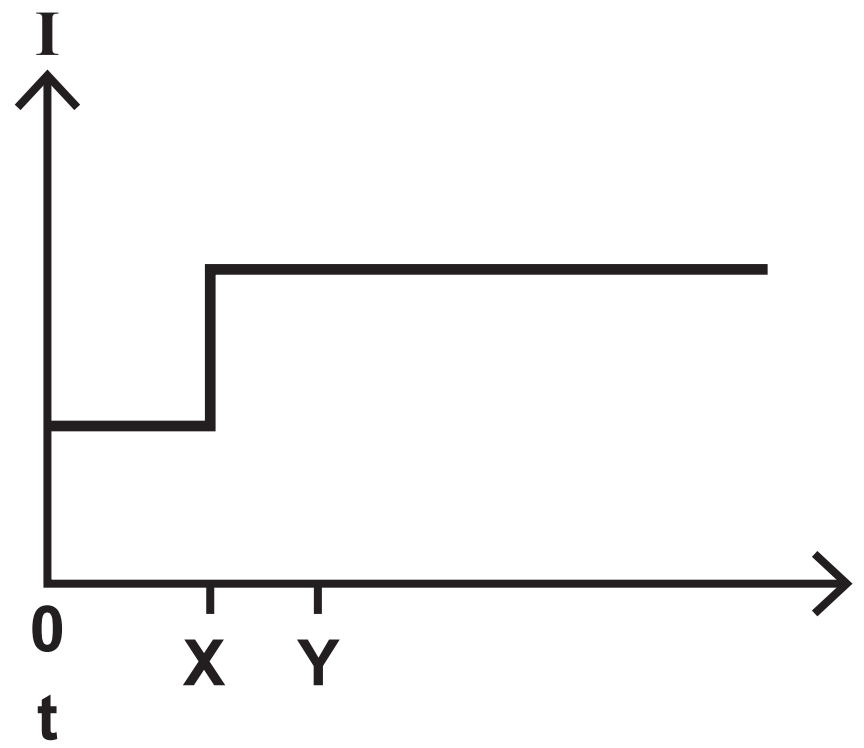


Question 7

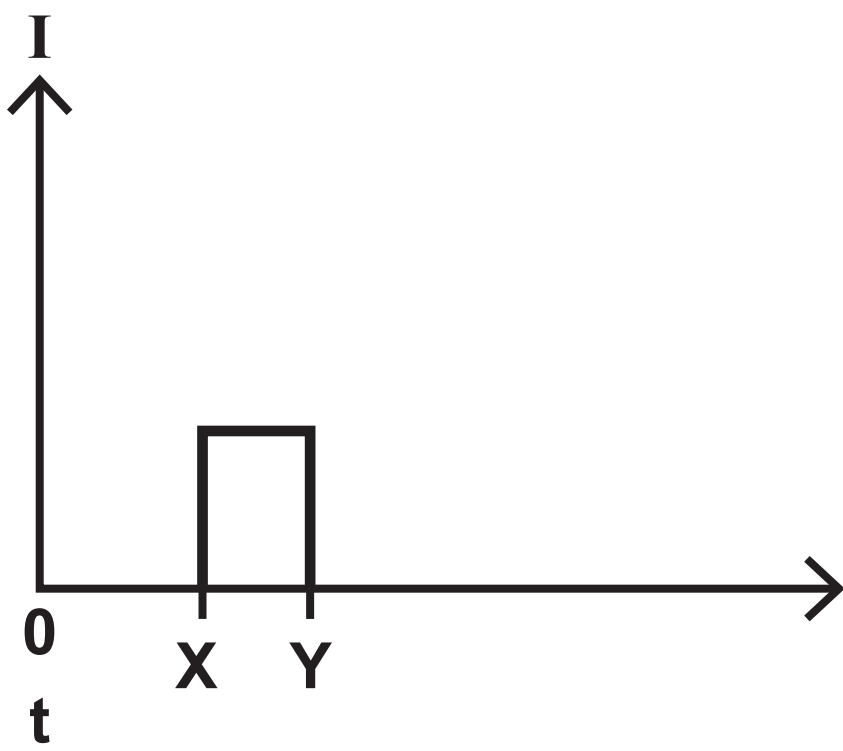
graph A



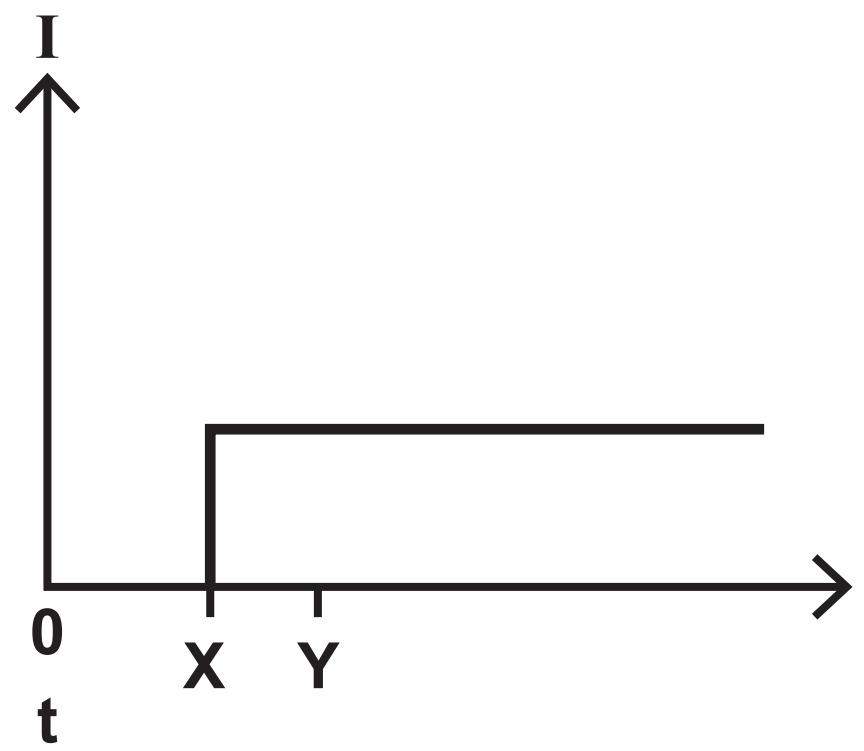
graph B



graph C



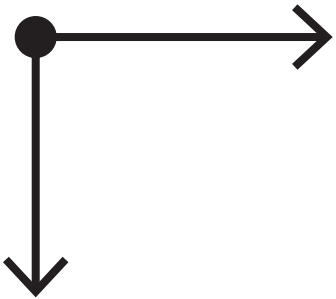
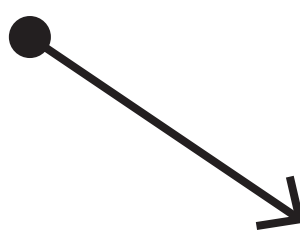
graph D



Questions 9 and 10

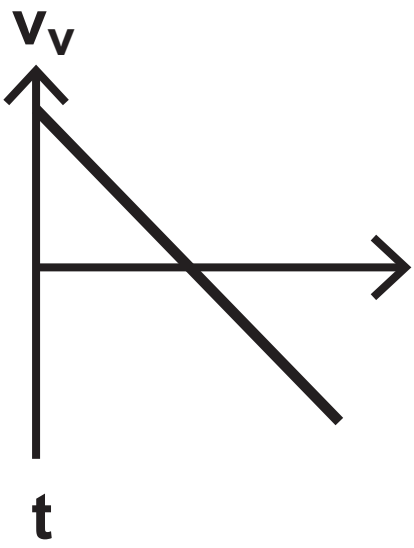


Question 9

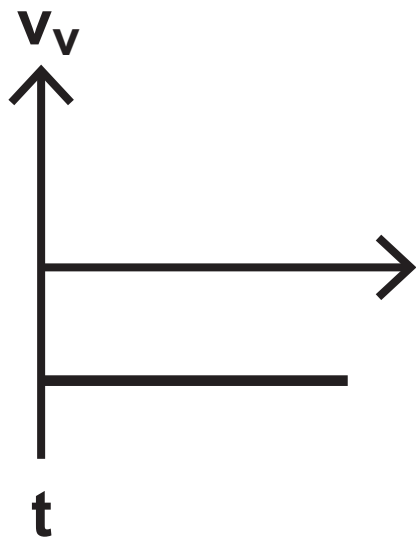
diagram **A**diagram **B**diagram **C**diagram **D**

Question 10

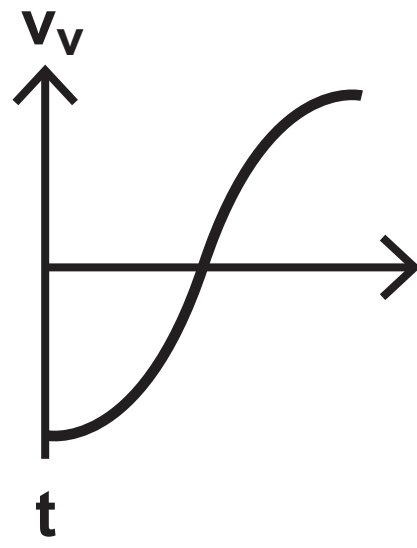
graph A



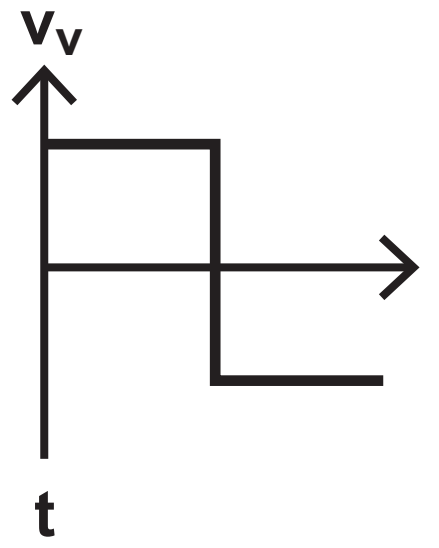
graph B



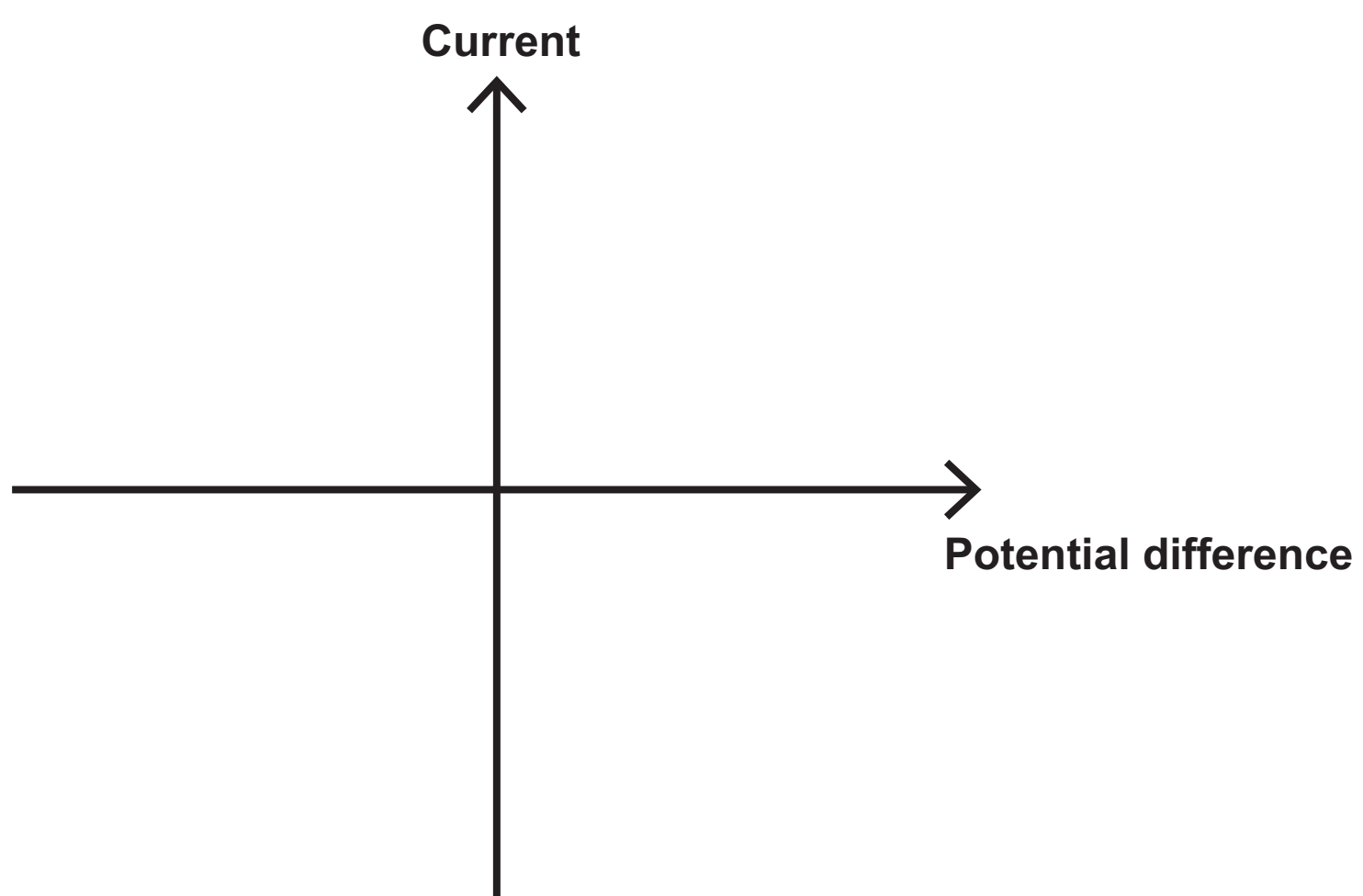
graph C



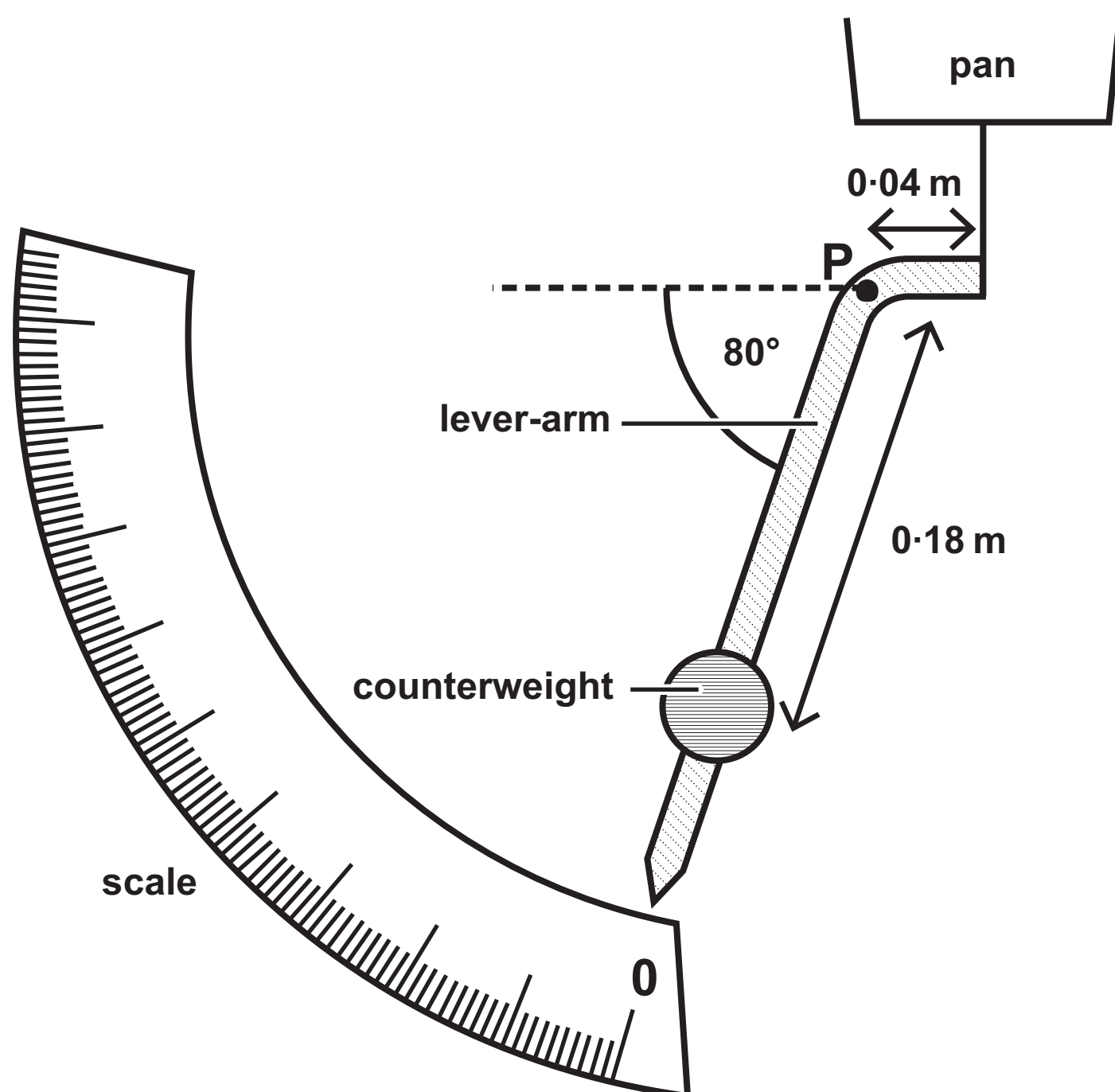
graph D



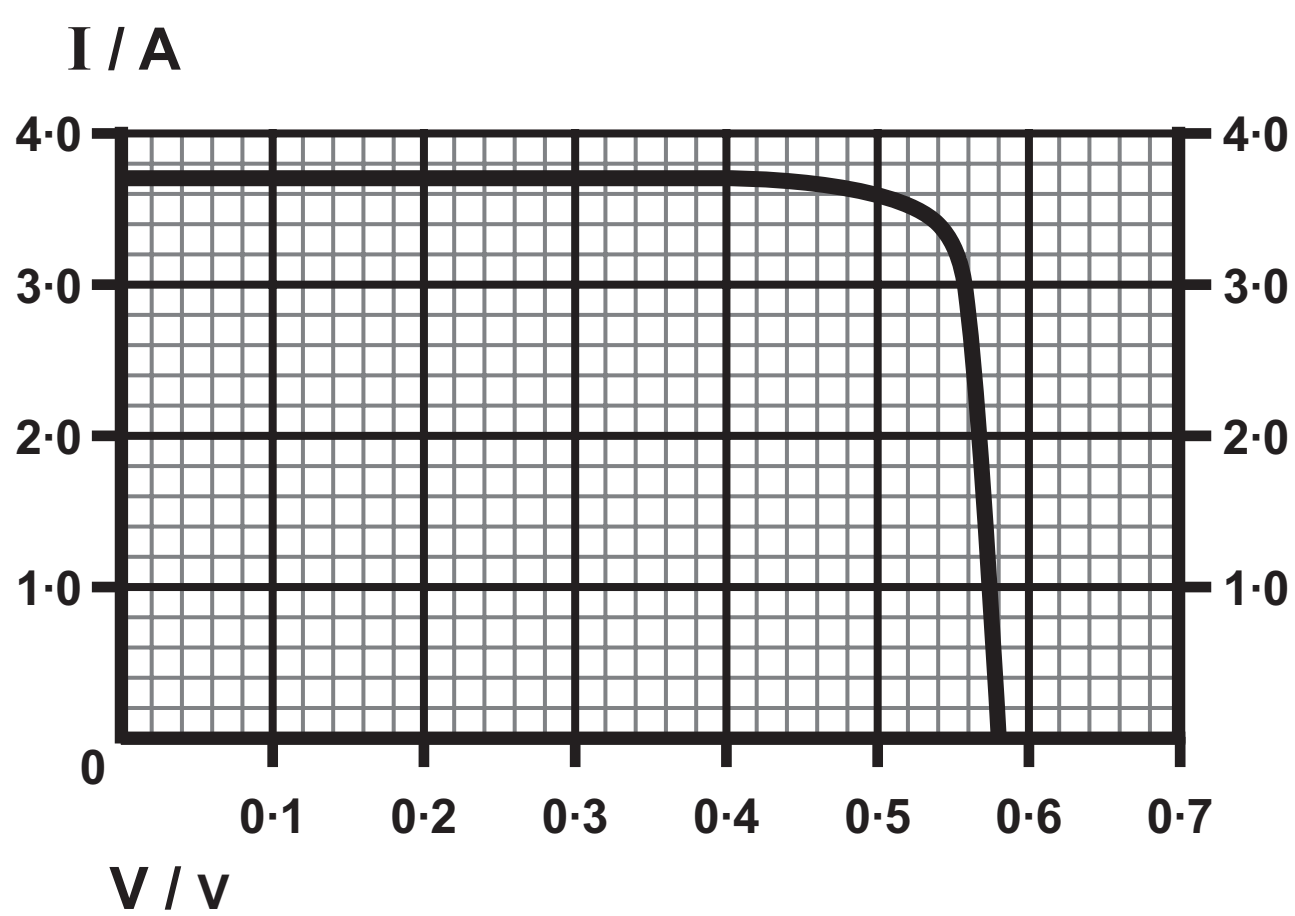
Question 11(a)

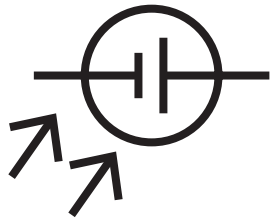


Question 12



Question 13





Question 14(a)

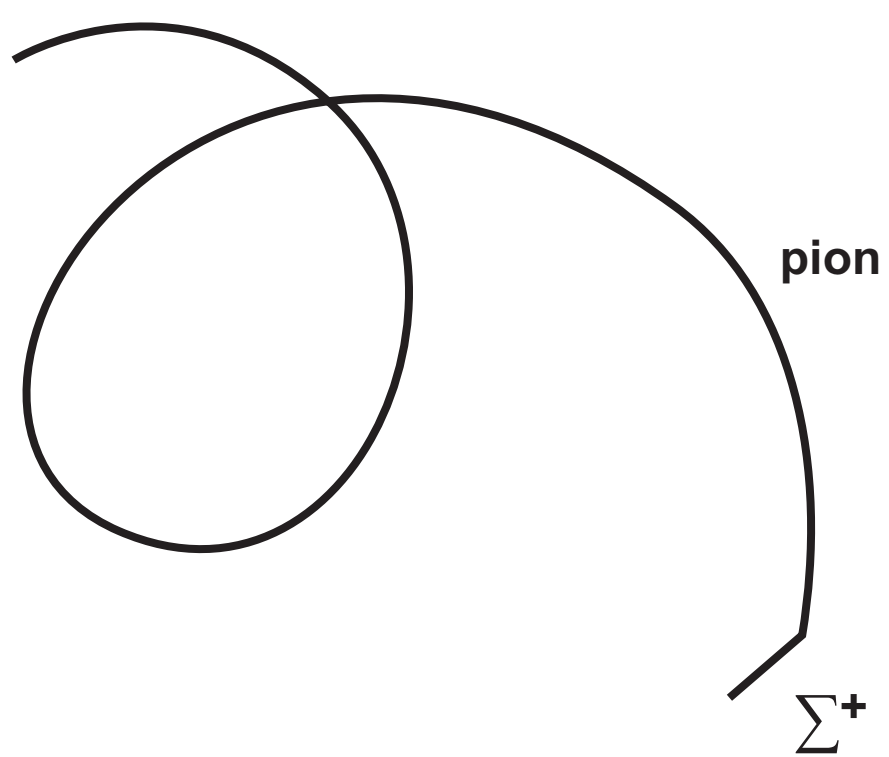
Question 15(a)

$$\Sigma^+ \rightarrow$$

Question 15(c)

Quark	Charge / e
u	+2/3
d	−1/3
s	−1/3

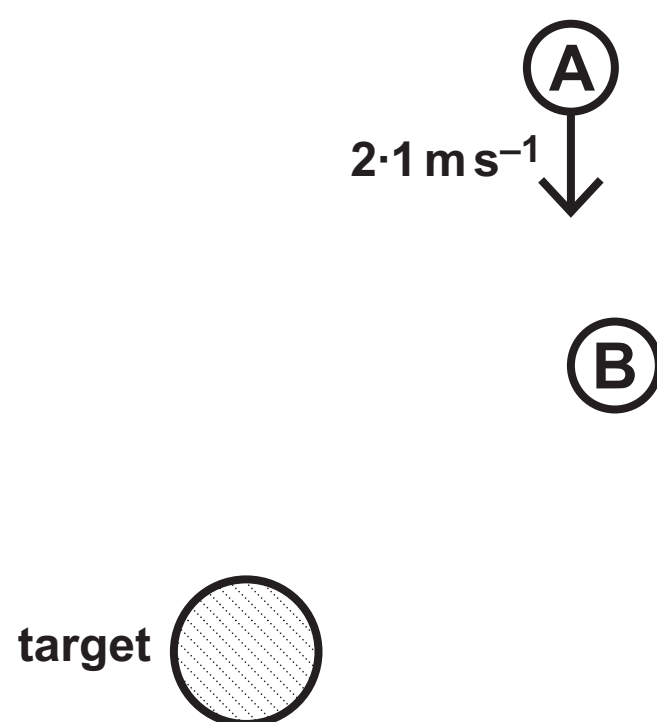
Question 15(d)



Question 16

Diagram NOT accurately drawn

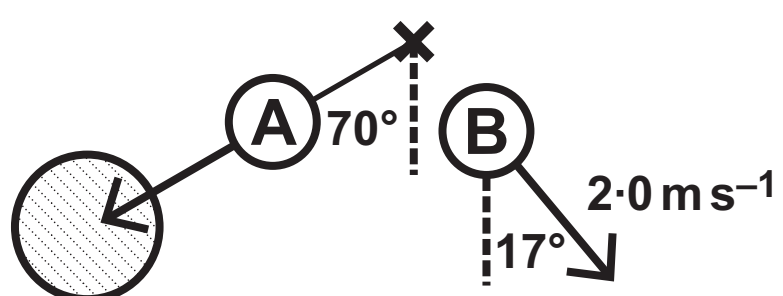
VIEW FROM ABOVE



Question 16(a)(ii)

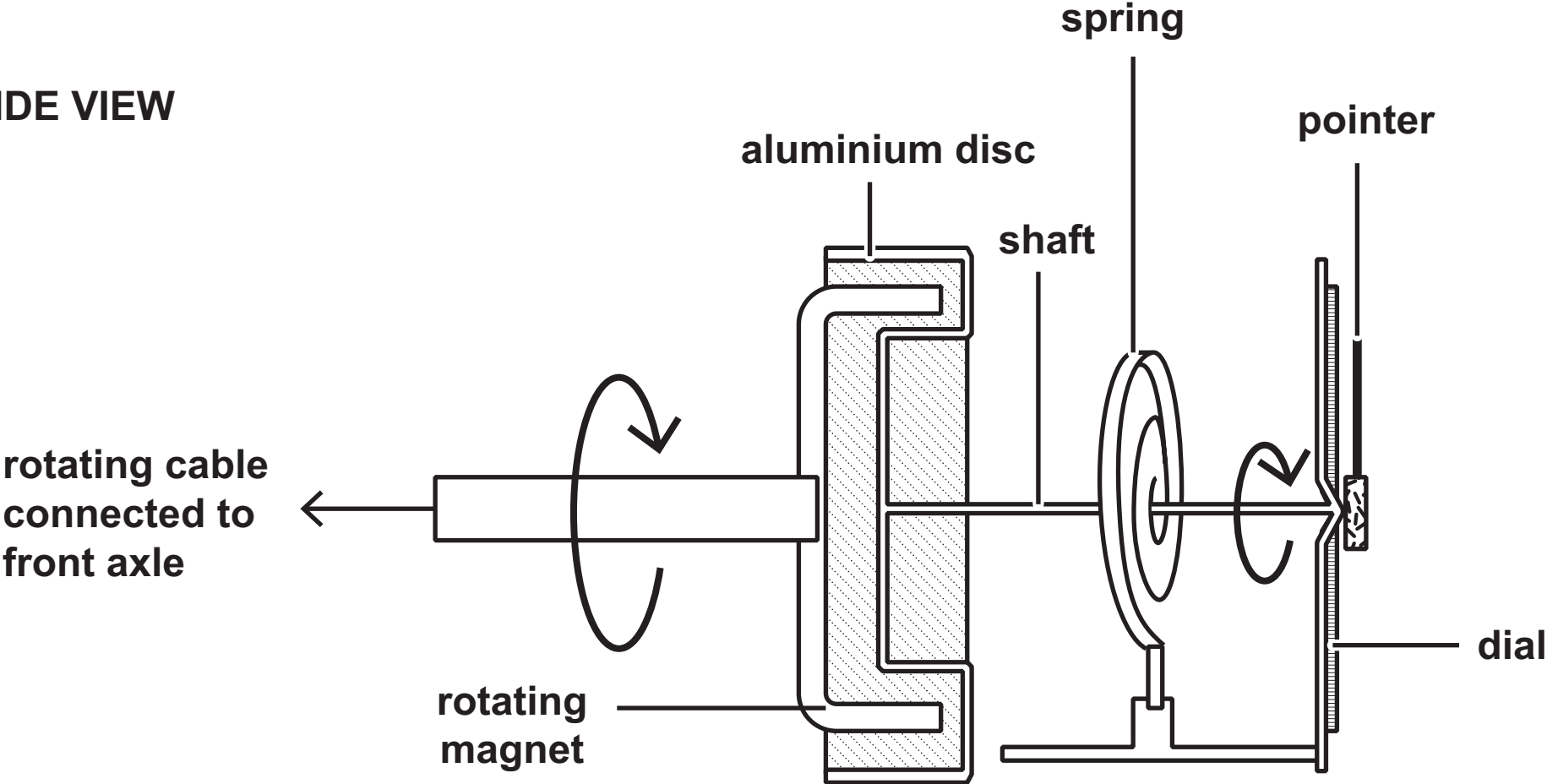
Diagram NOT accurately drawn

VIEW FROM ABOVE

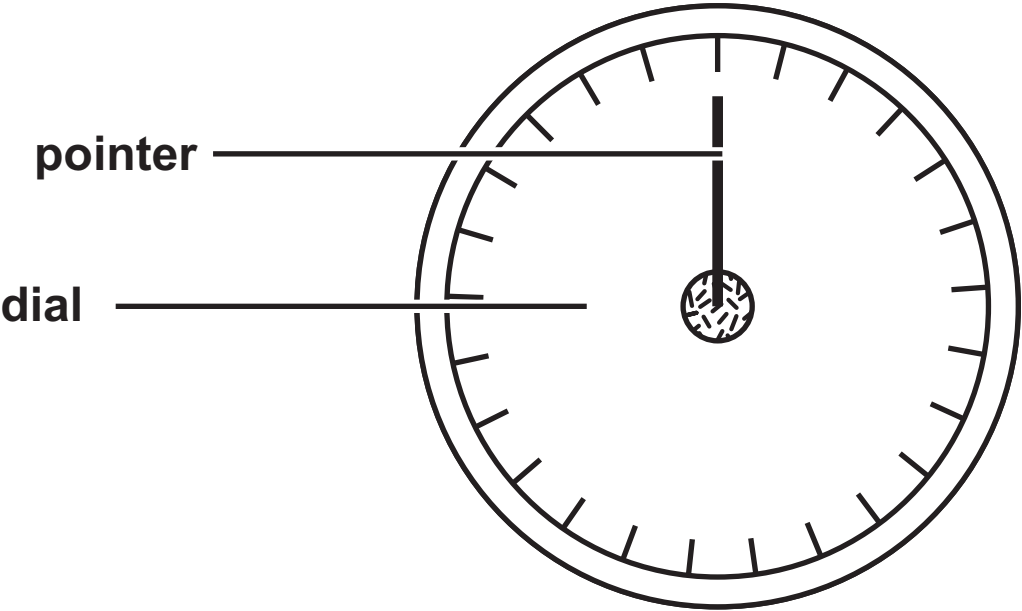


Question 17

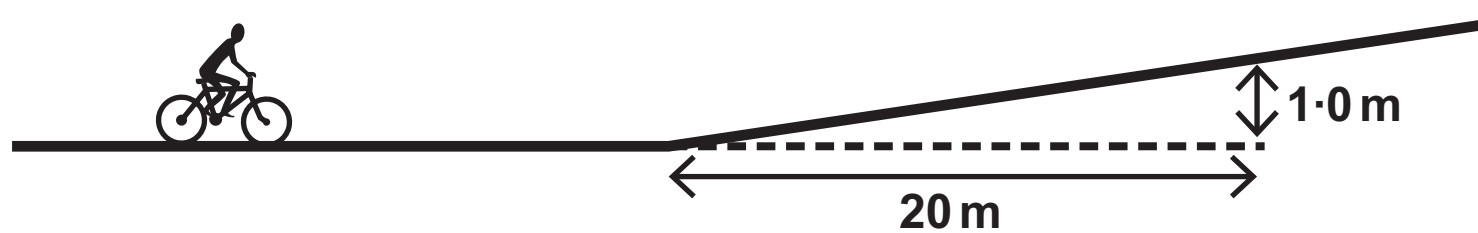
SIDE VIEW



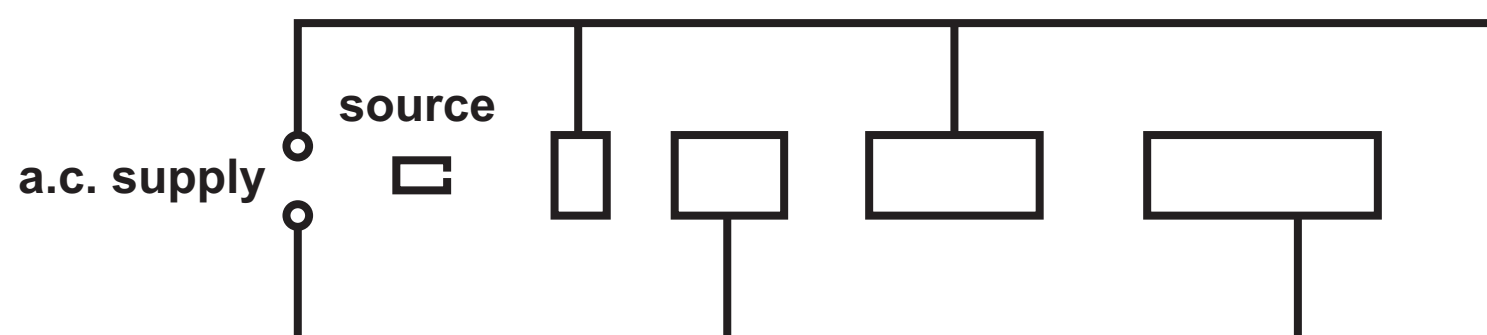
FRONT VIEW ON THE DIAL

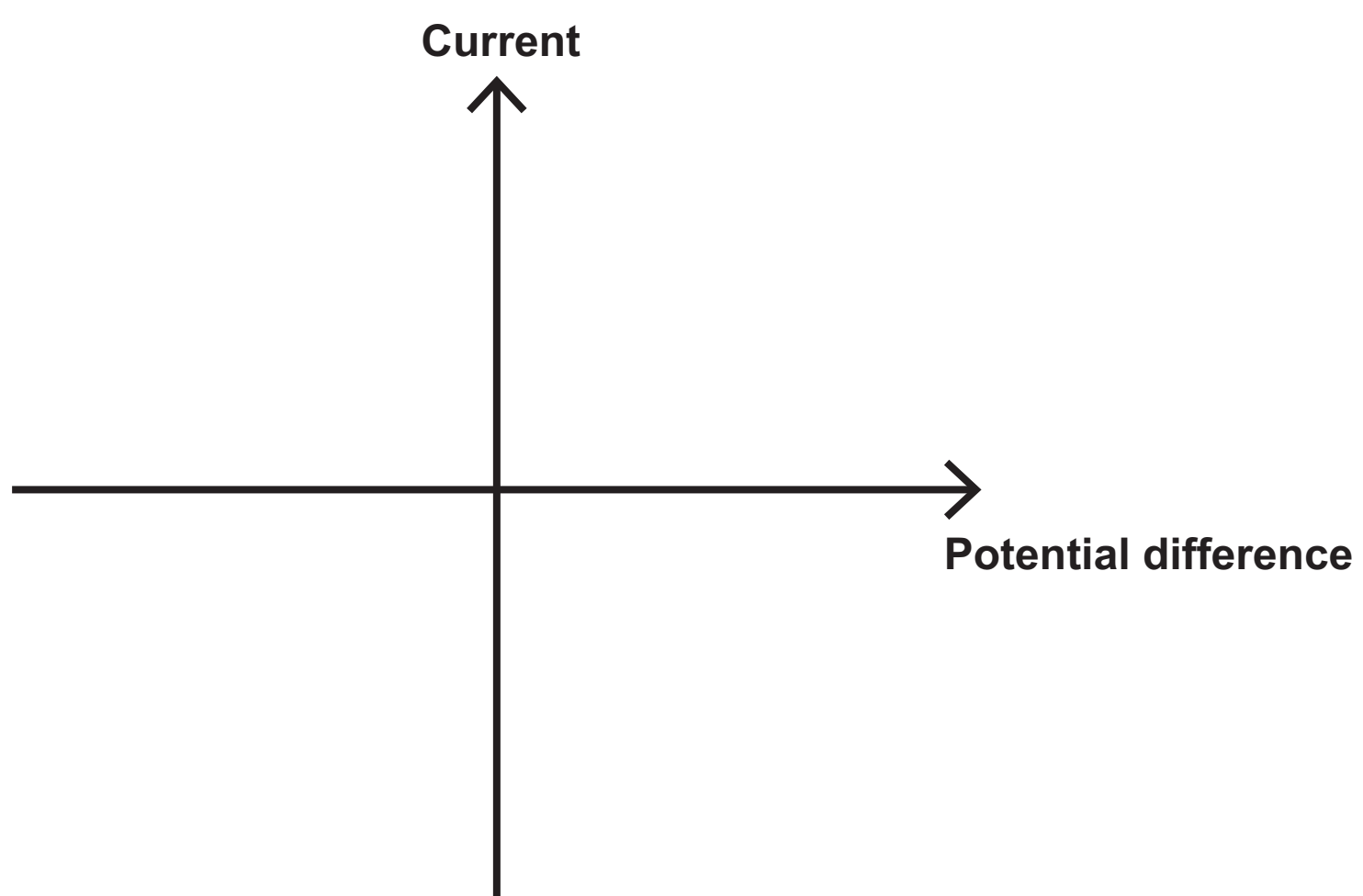


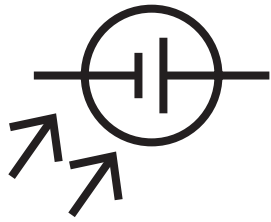
Question 17(c)



Question 18(a)



Question 11(a) – Spare copy



Question 14(a) – Spare copy

Question 15(a) – Spare copy

$$\Sigma^+ \rightarrow$$