

Paper Reference(s) 9PH0/01
Pearson Edexcel Level 3 GCE

Physics

Advanced

PAPER 1: Advanced Physics I

Friday 23 May 2025 – Morning

Time: 1 hour 45 minutes

Diagram Booklet

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

Surname					
Other names					
Centre Number					
Candidate Number					

**THIS DOCUMENT MUST BE RETURNED
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THE EXAMINATION**

INSTRUCTIONS

**There may be spare copies of
some diagrams.**

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Spare Copies

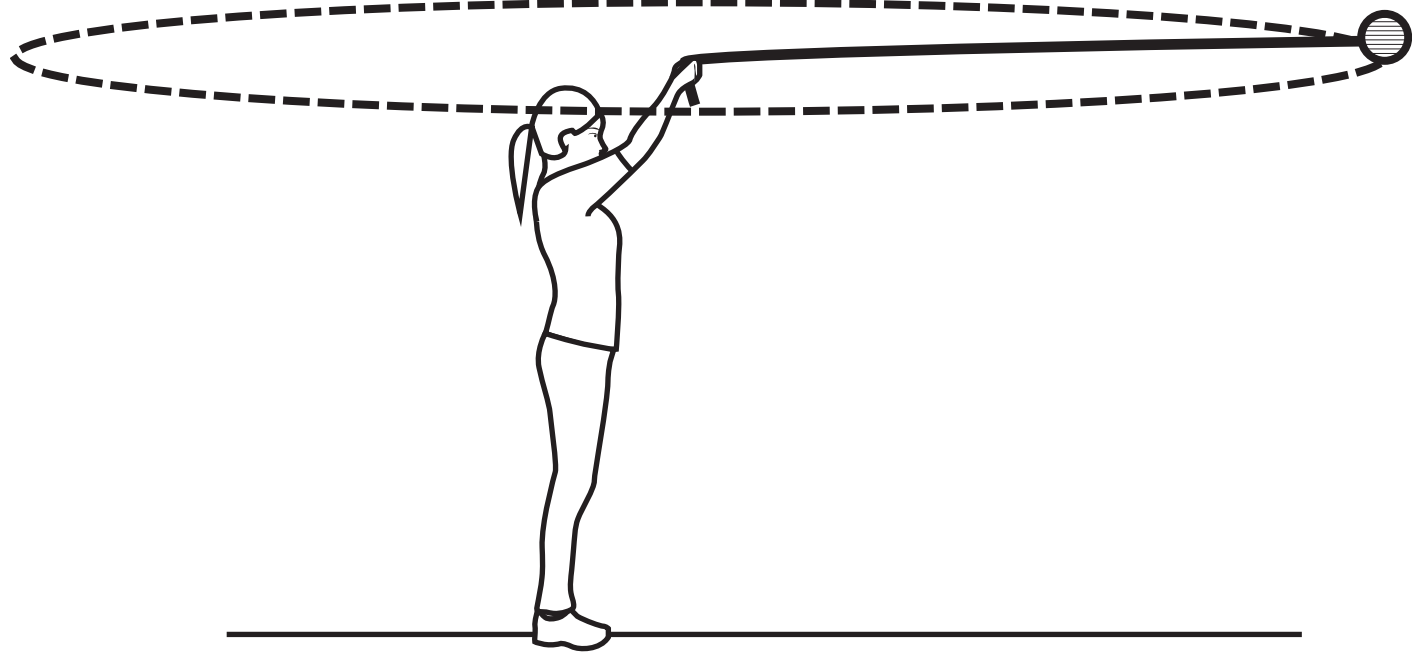
24 Question 11(a) – Spare copy

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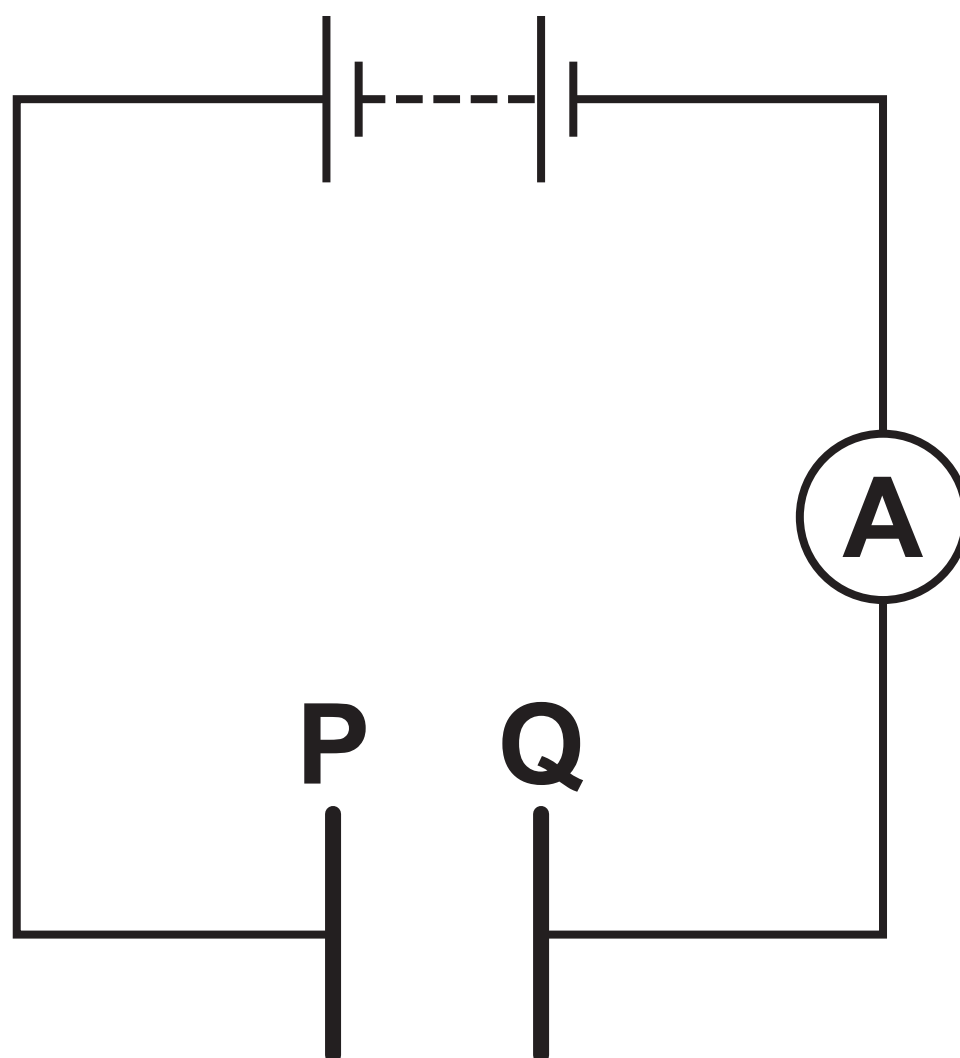
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Question 3

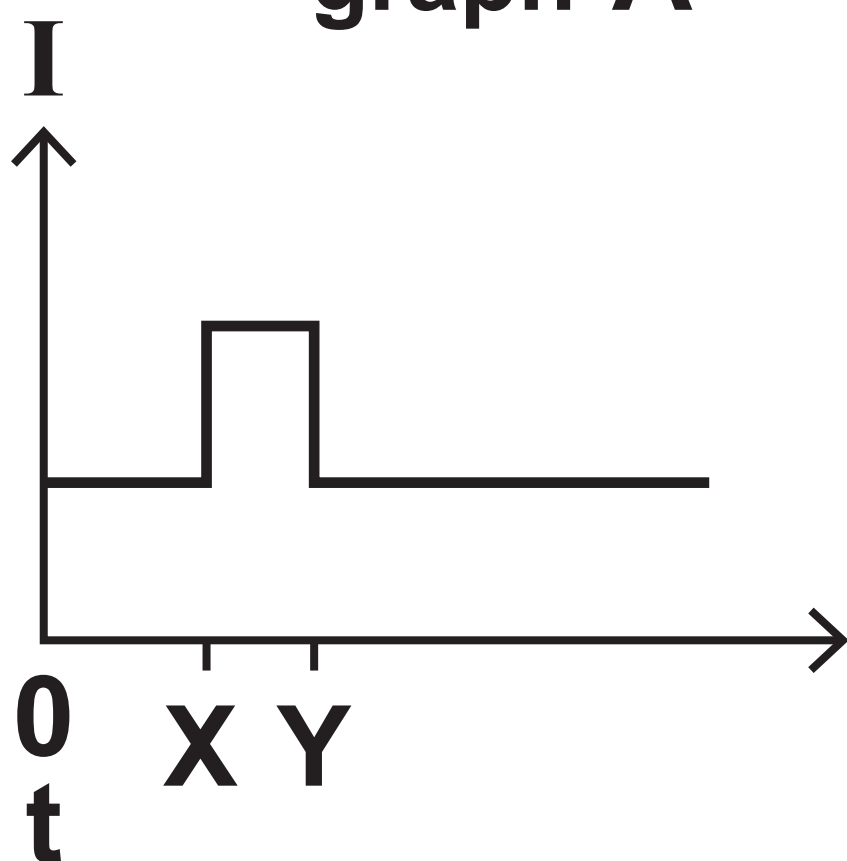


Questions 6 and 7

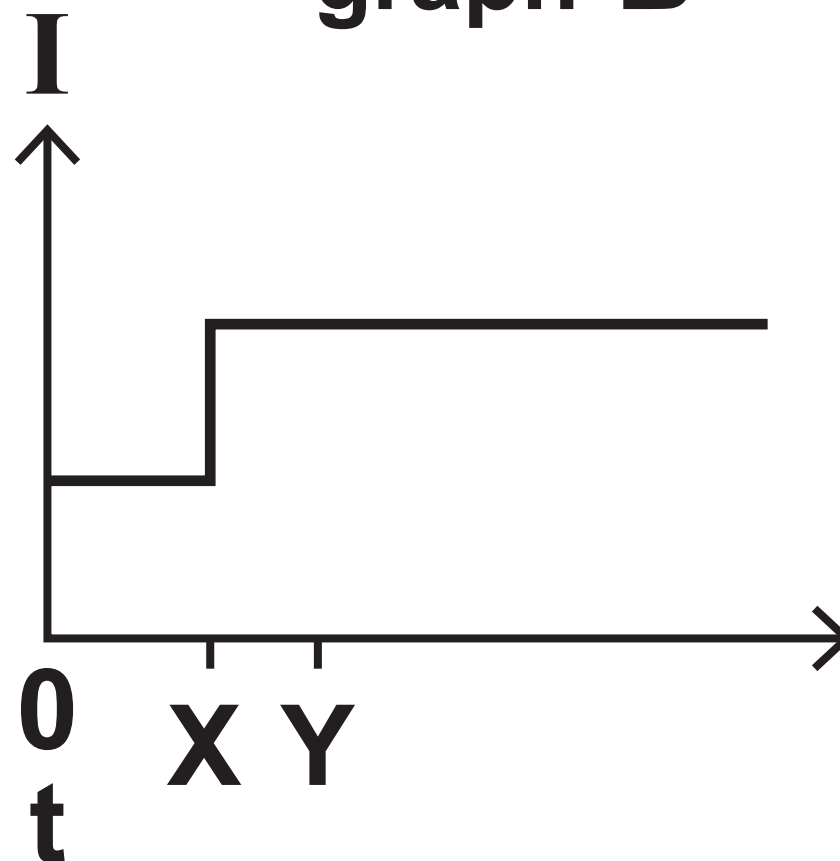


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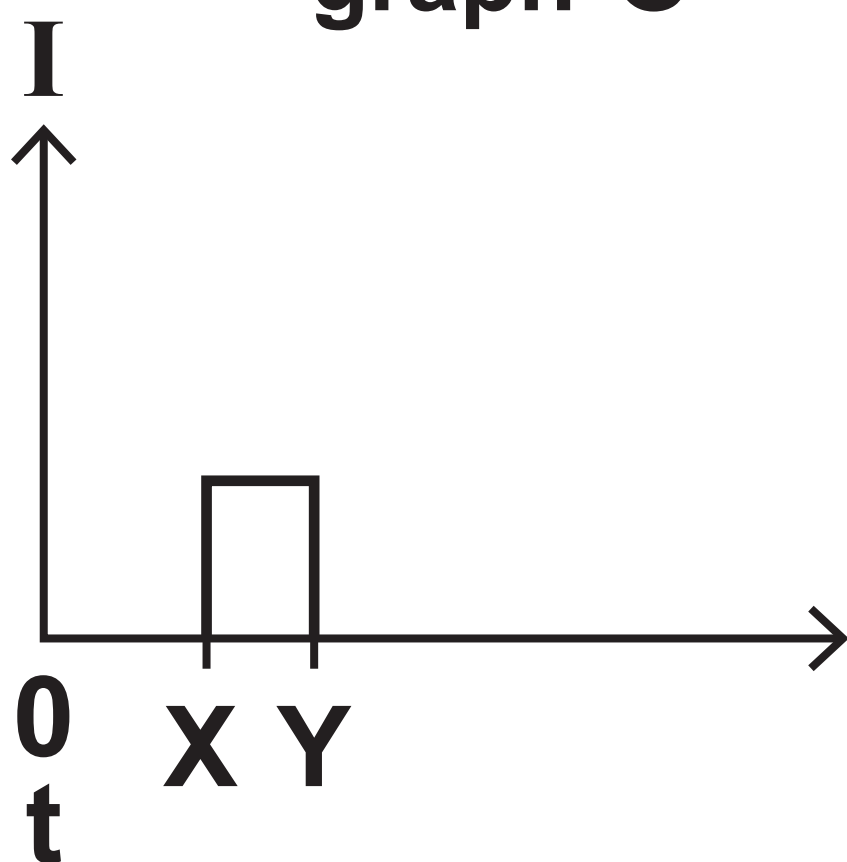
graph A



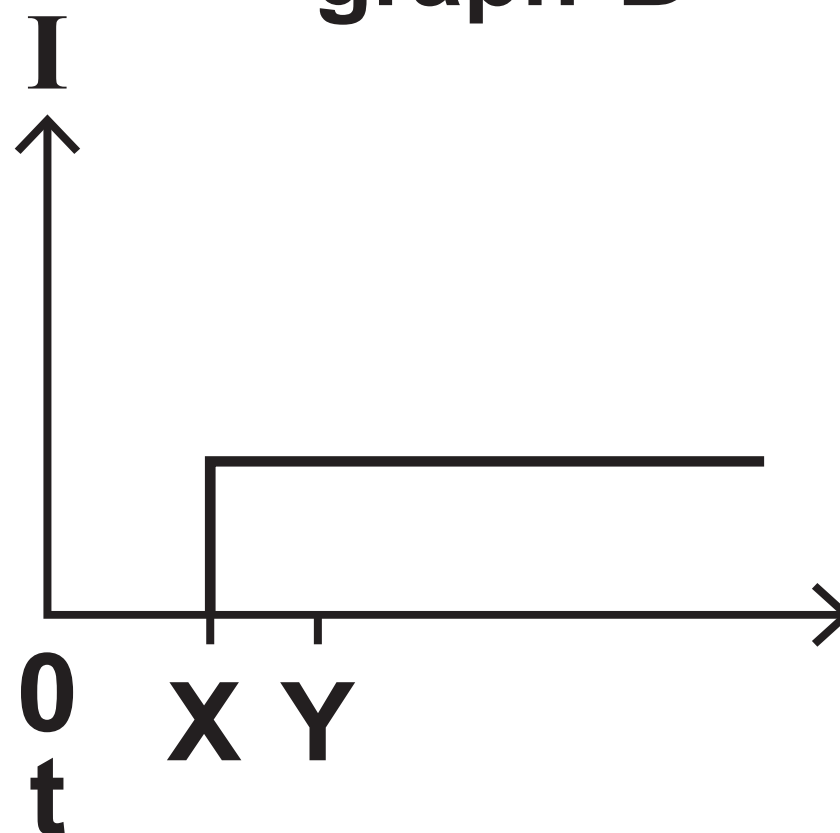
graph B



graph C



graph D



Questions 9 and 10



Question 9

diagram A

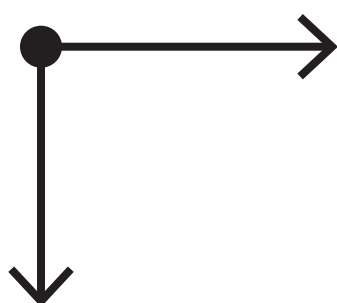


diagram B



diagram C

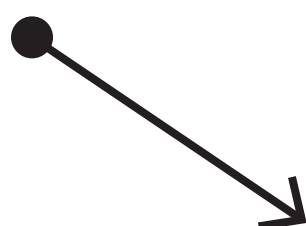
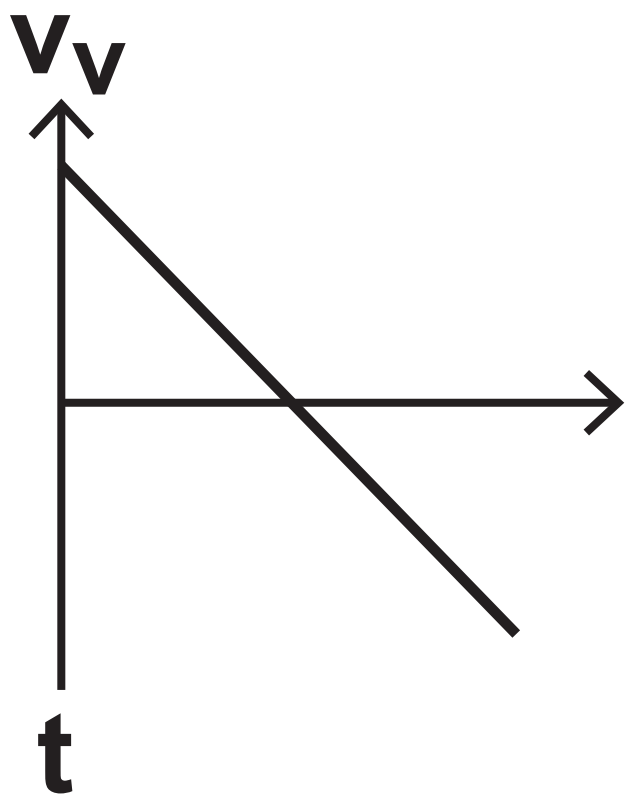


diagram D

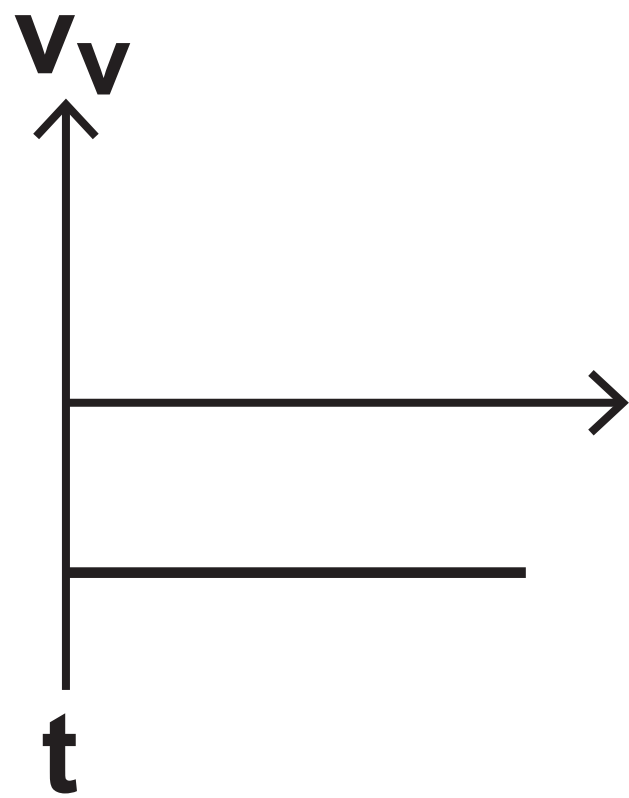


Question 10

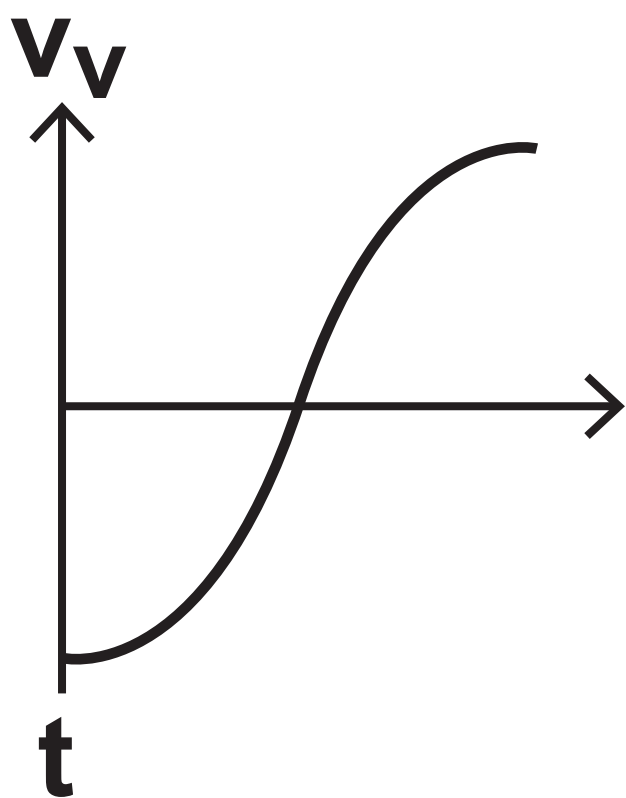
graph A



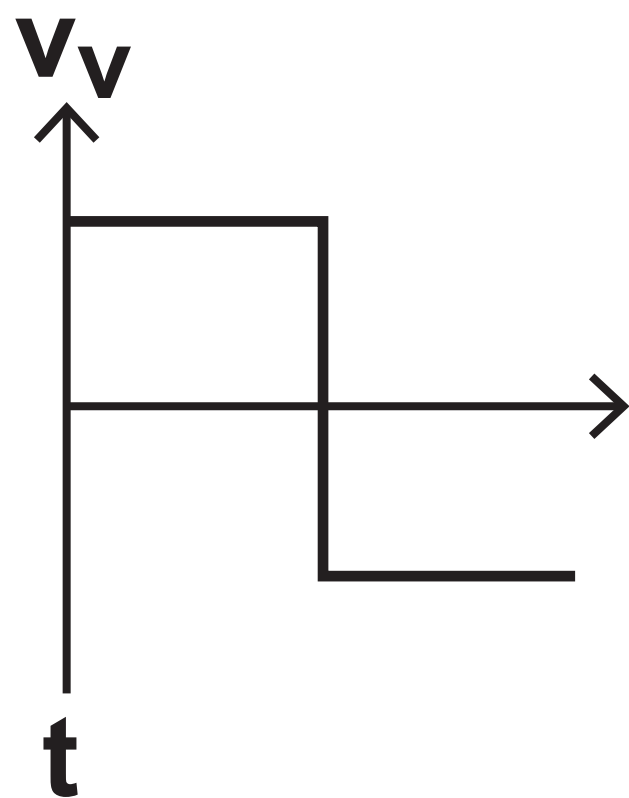
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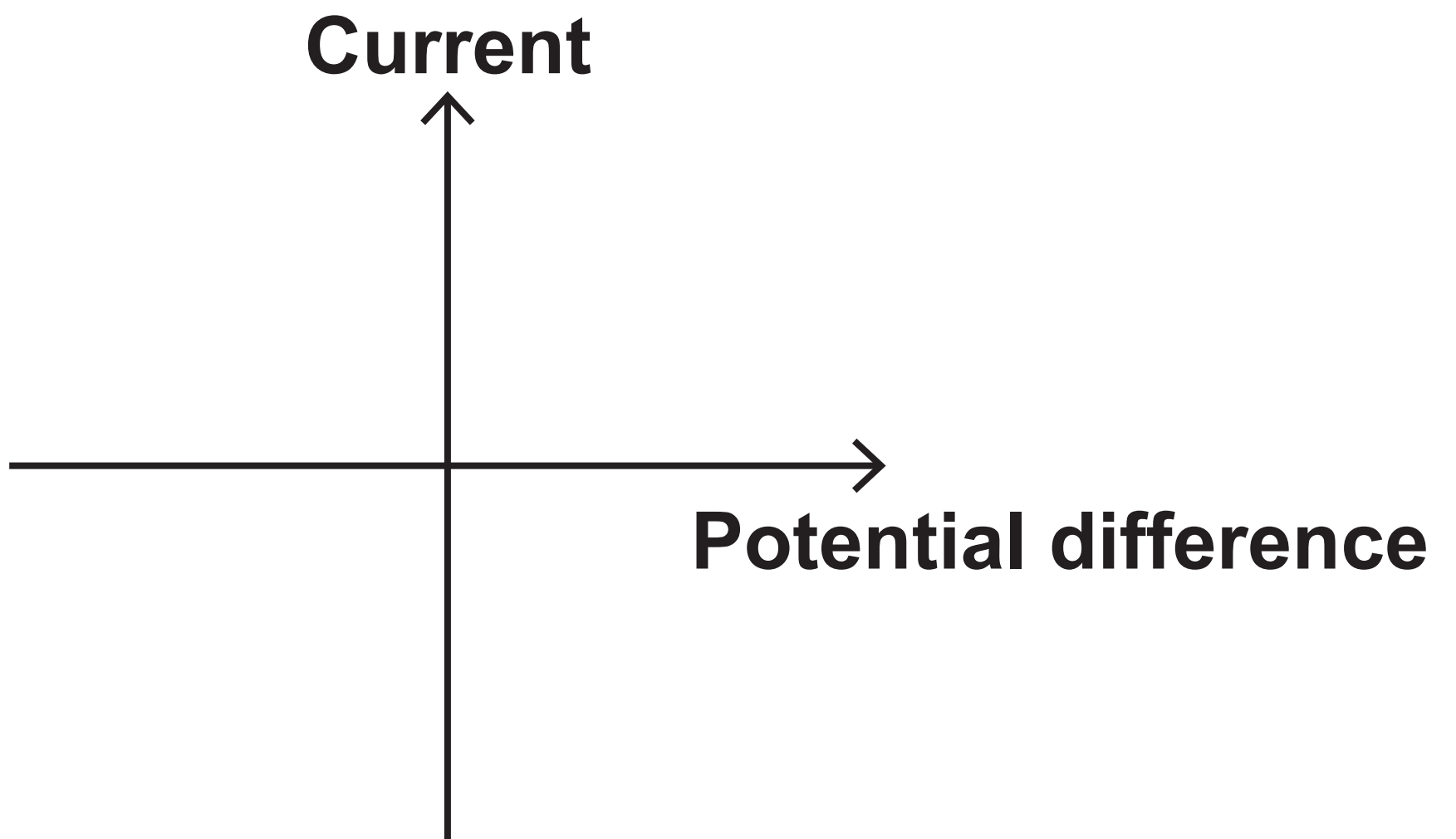
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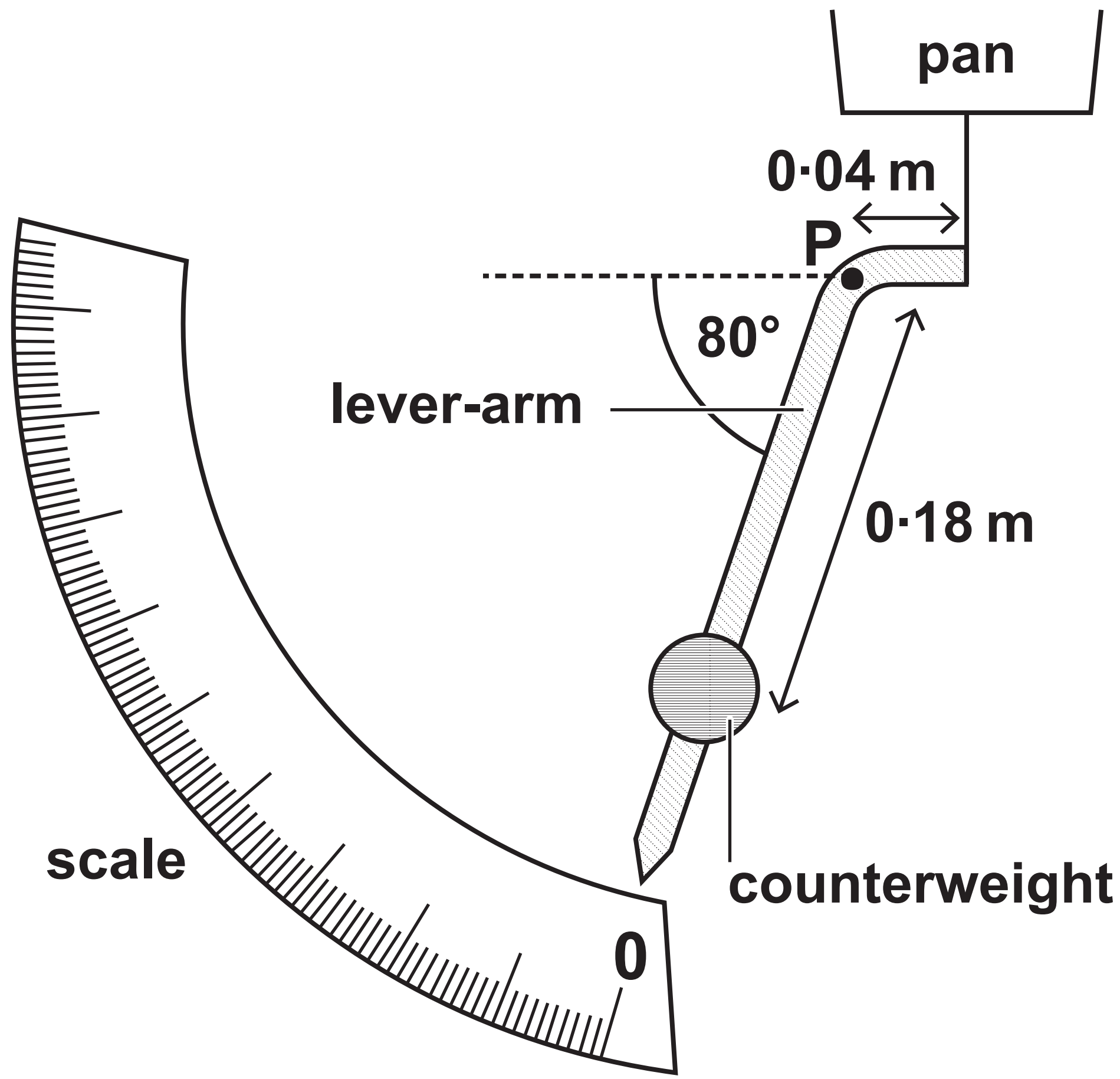
graph D



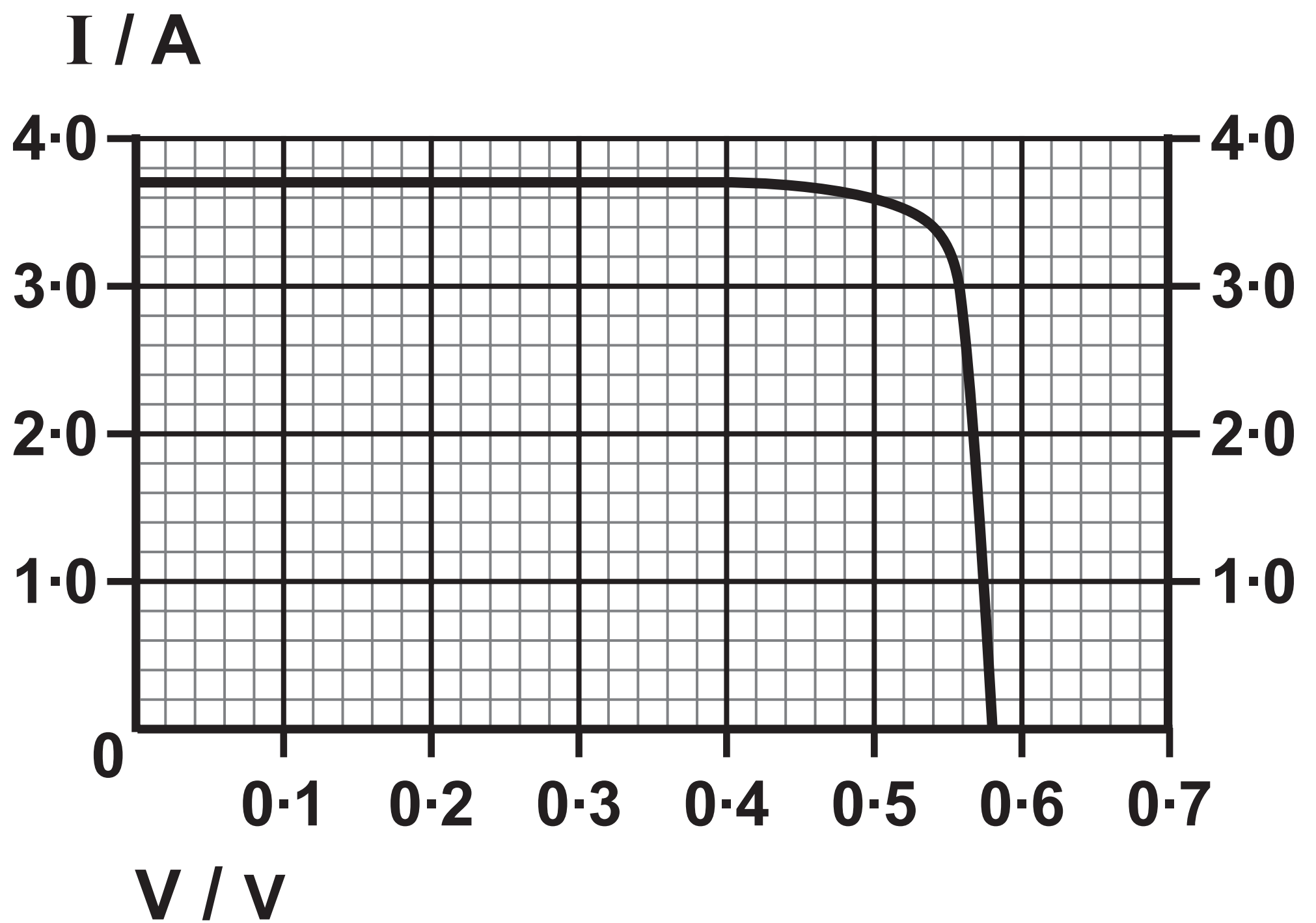
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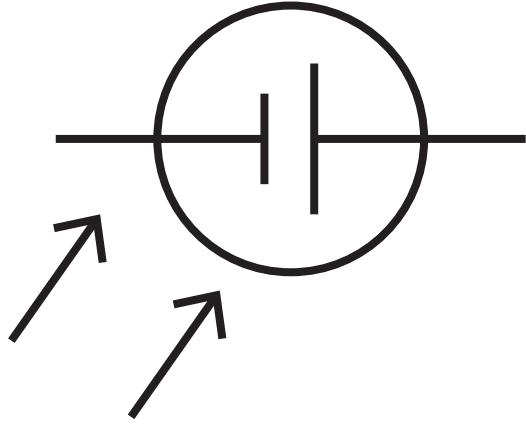
Question 12



Question 13



Question 13(a)



Question 14(a)



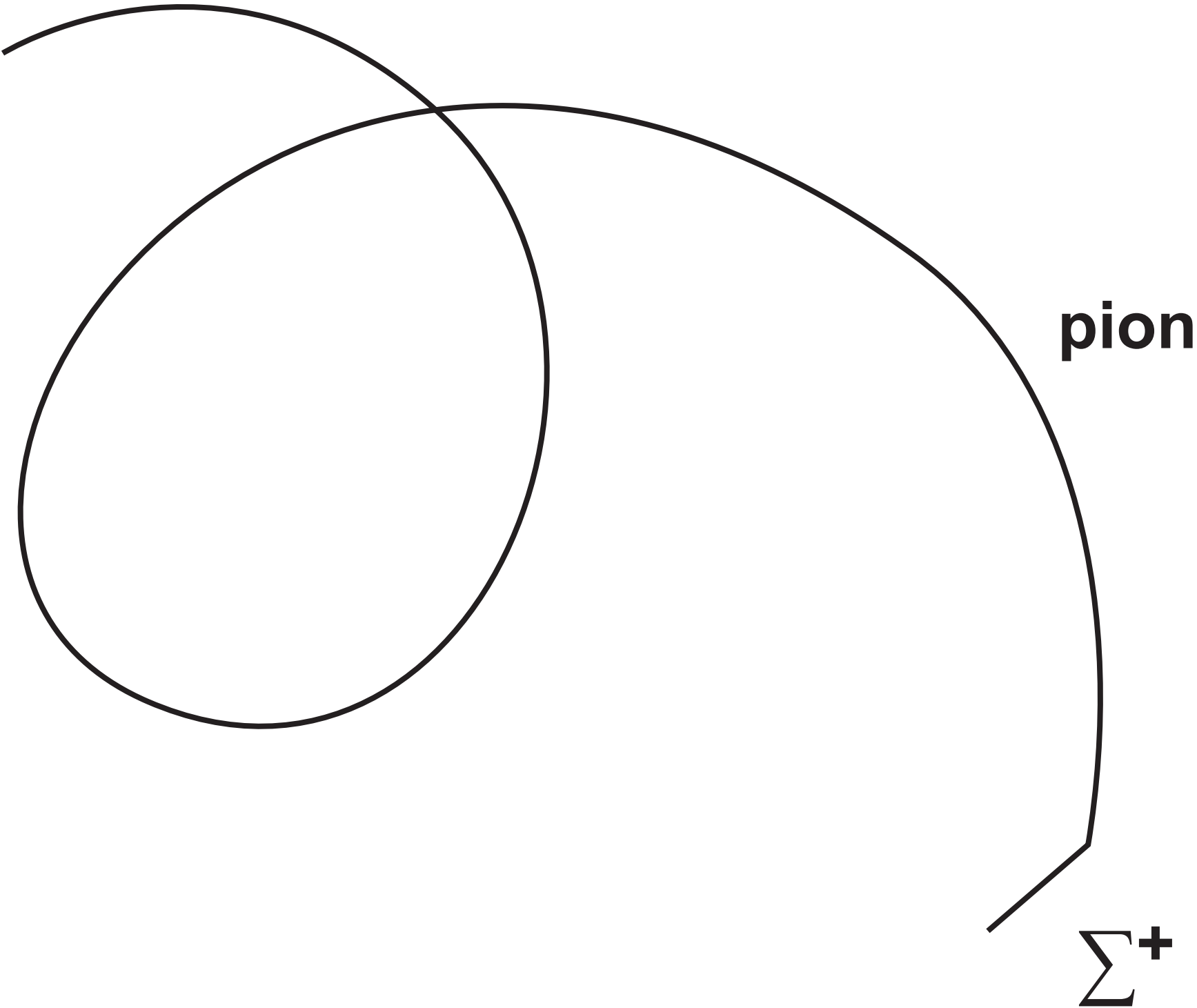
Question 15(a)

$$\Sigma^+ \rightarrow$$

Question 15(c)

Quark	Charge / e
u	$+2/3$
d	$-1/3$
s	$-1/3$

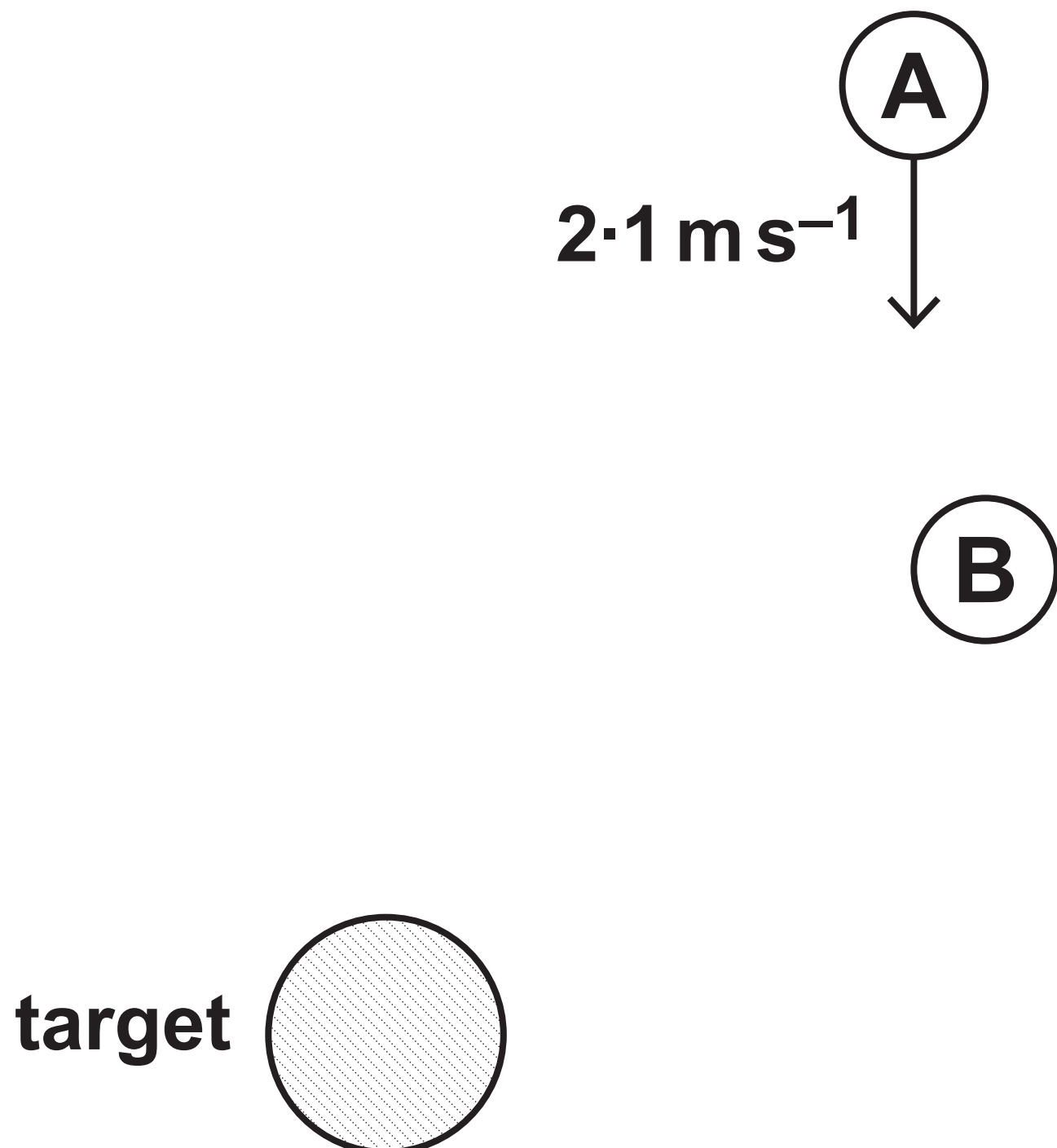
Question 15(d)

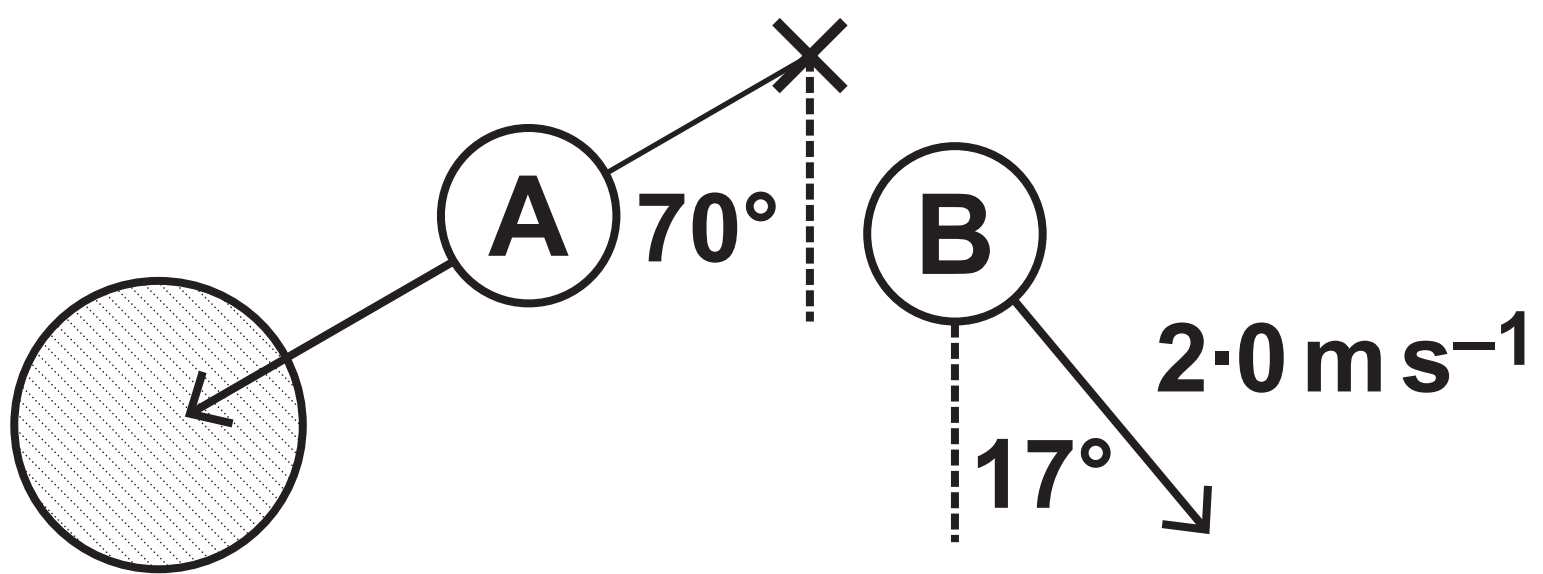


Question 16

Diagram NOT accurately drawn

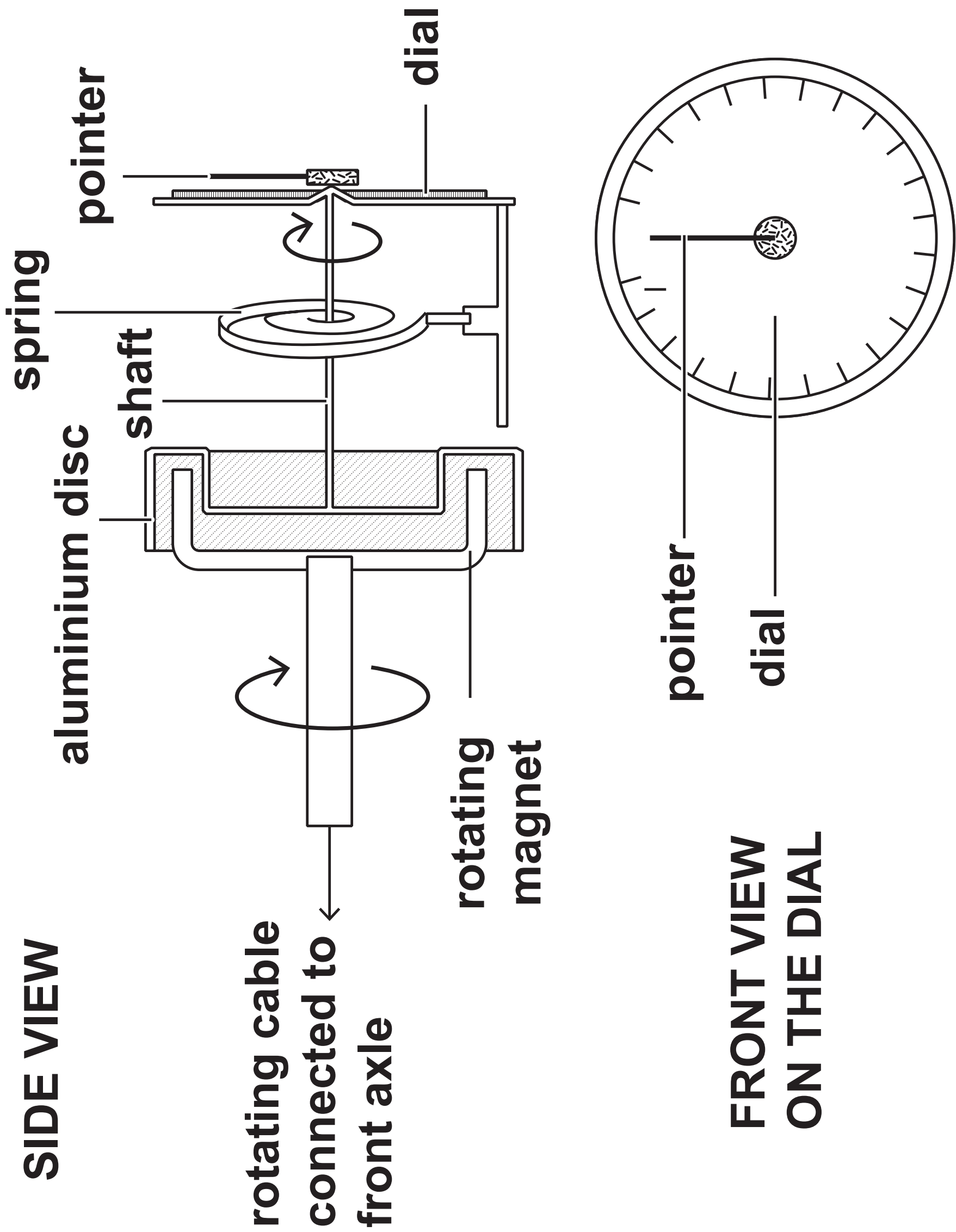
VIEW FROM ABOVE



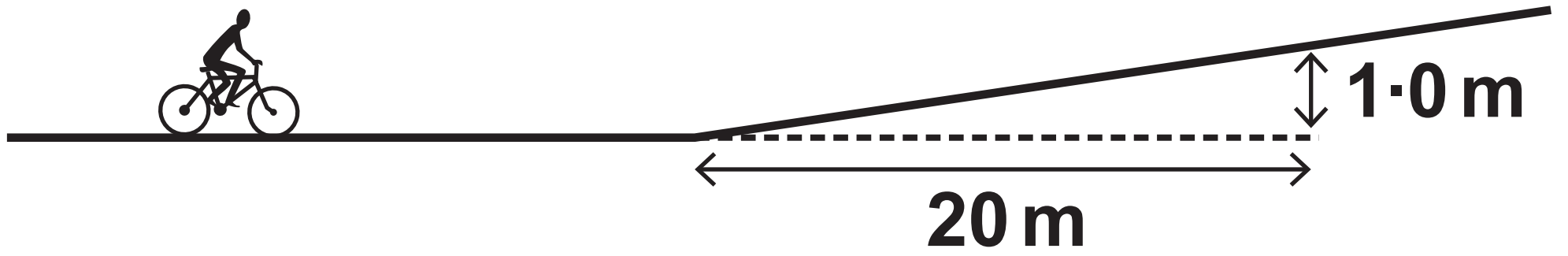
Question 16(a)(ii)**Diagram NOT accurately drawn****VIEW FROM ABOVE**

Question 17

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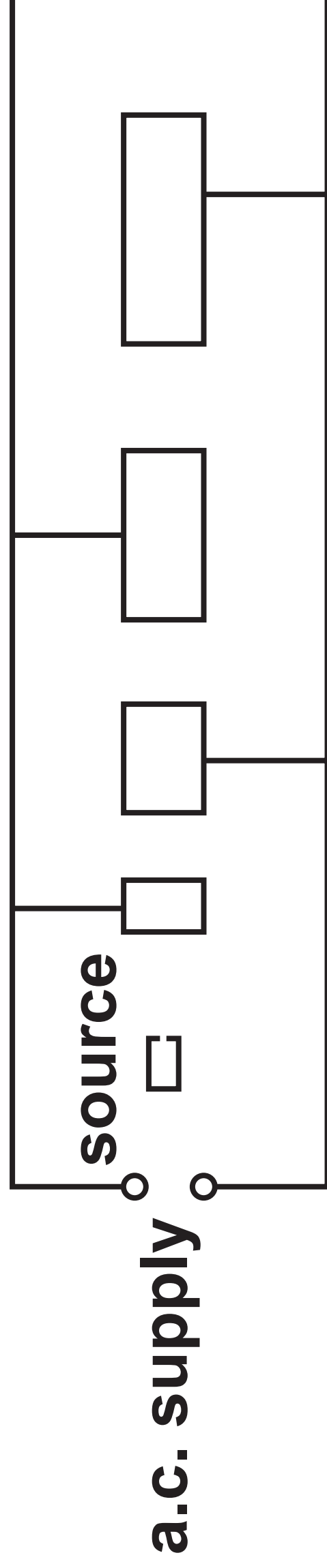


Question 17(c)

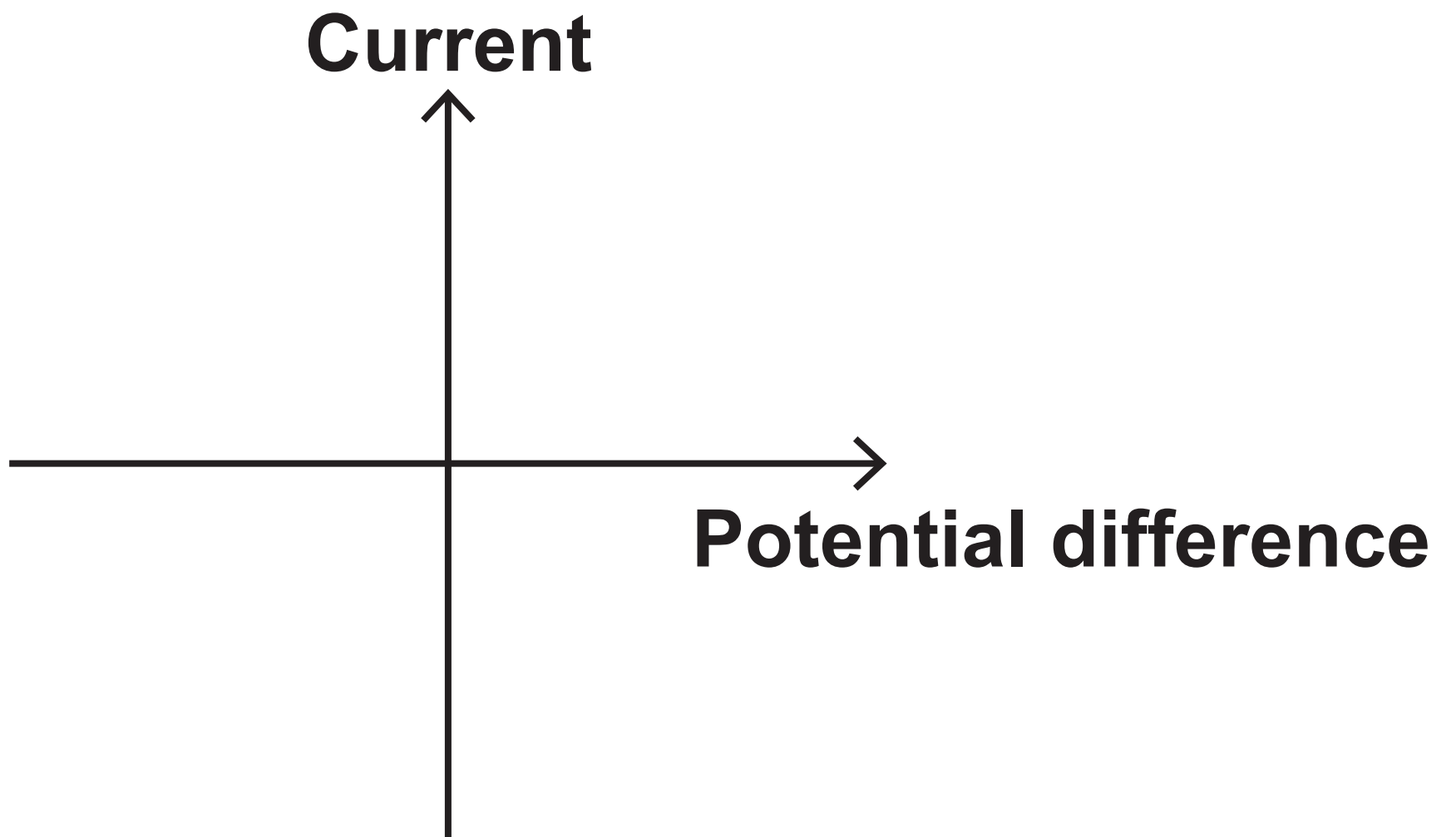


Question 18(a)

23

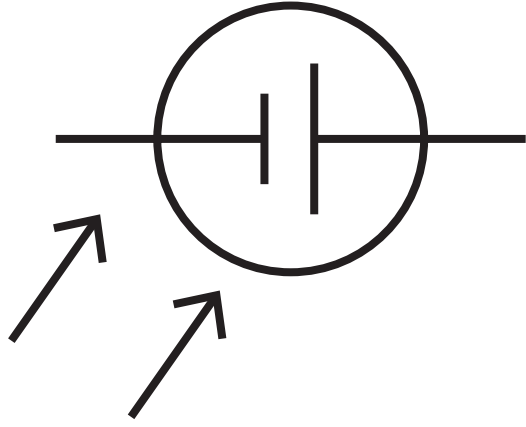


Question 11(a) – Spare copy



Question 13(a) – Spare copy

25



Question 14(a) – Spare copy



Question 15(a) – Spare copy

$$\Sigma^+ \rightarrow$$