

Paper Reference(s) 1PH0/1H
Pearson Edexcel Level 1/Level 2 GCSE
(9–1)

Physics
PAPER 1
Higher Tier

Wednesday 22 May 2024 – Morning
Time: 1 hour 45 minutes
Diagram Booklet

**THIS DIAGRAM BOOKLET MUST BE
RETURNED WITH THE QUESTION PAPER
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 in case you need them.

CONTENTS

Page

4	Question 1(c)
5	Question 2
6	Question 2(c)
7	Question 3(a)
8	Question 4(b)
9	Question 4(d)
10	Question 5
11	Question 6(a)(ii)
12	Question 6(b)
13	Question 6(c)

(continued on the next page)

CONTENTS continued.

14 Question 7(a)

15 Question 7(c)

16 Question 8(d)(iv)

17 Question 9(a)

18 Question 9(b)

19 Question 9(c)

20 Question 10(b)

21 Question 10(c)

Spare Copies

22 Question 6(a)(ii)

23 Question 8(d)(iv)

FIGURE 1

SPECTRUM OF ELEMENT

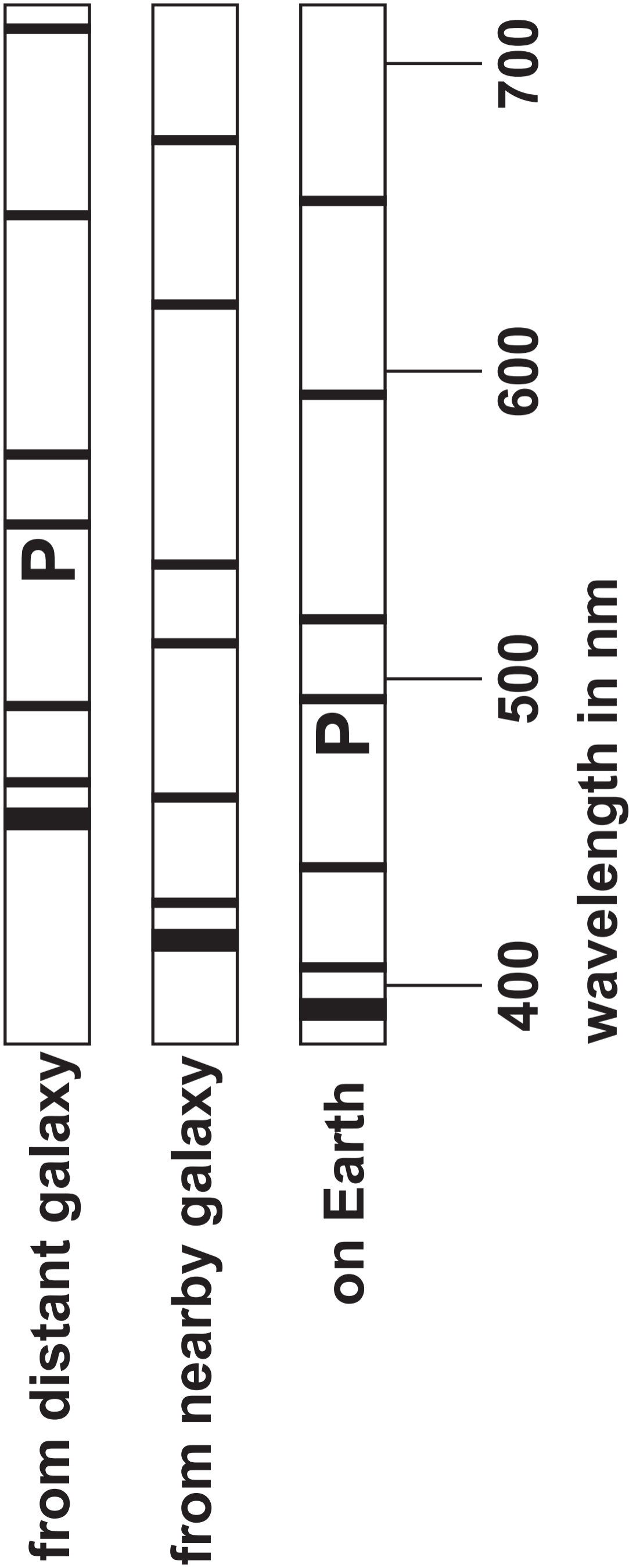
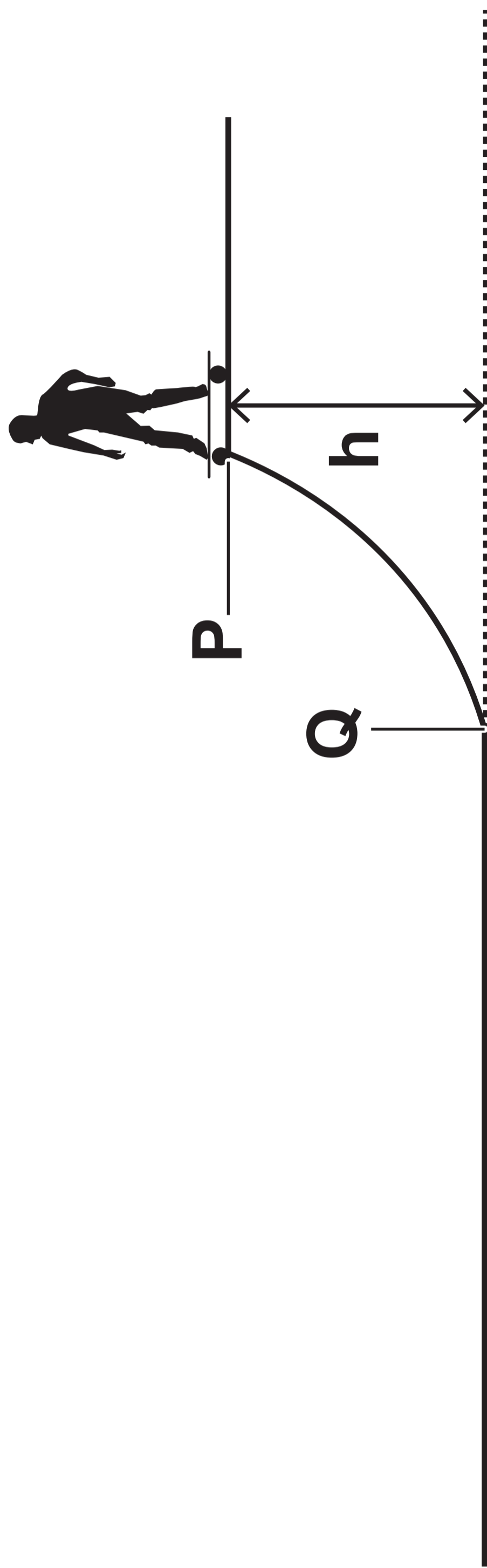


FIGURE 2



Question 2(c)

6

FIGURE 3

NOT TO SCALE

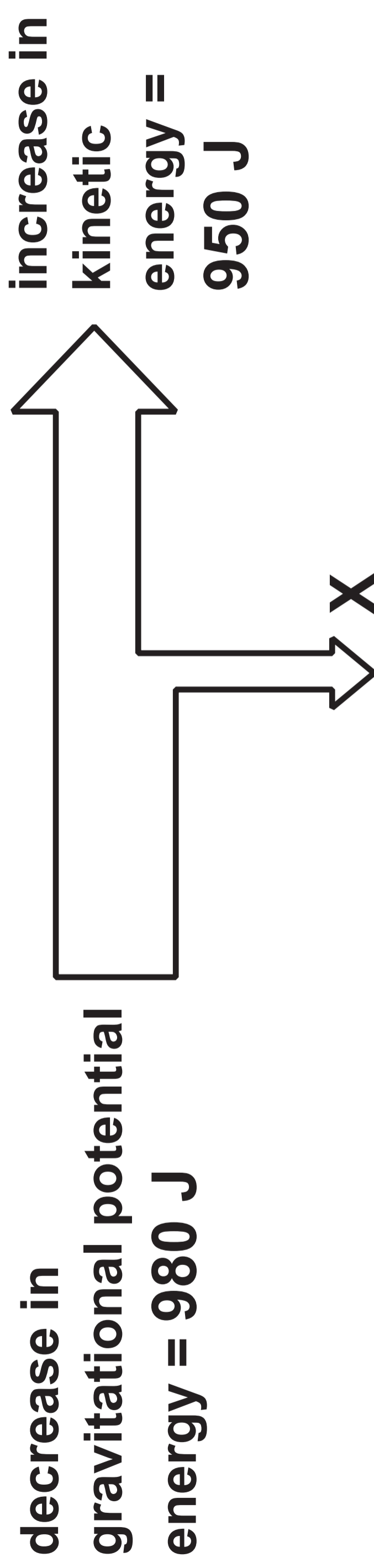


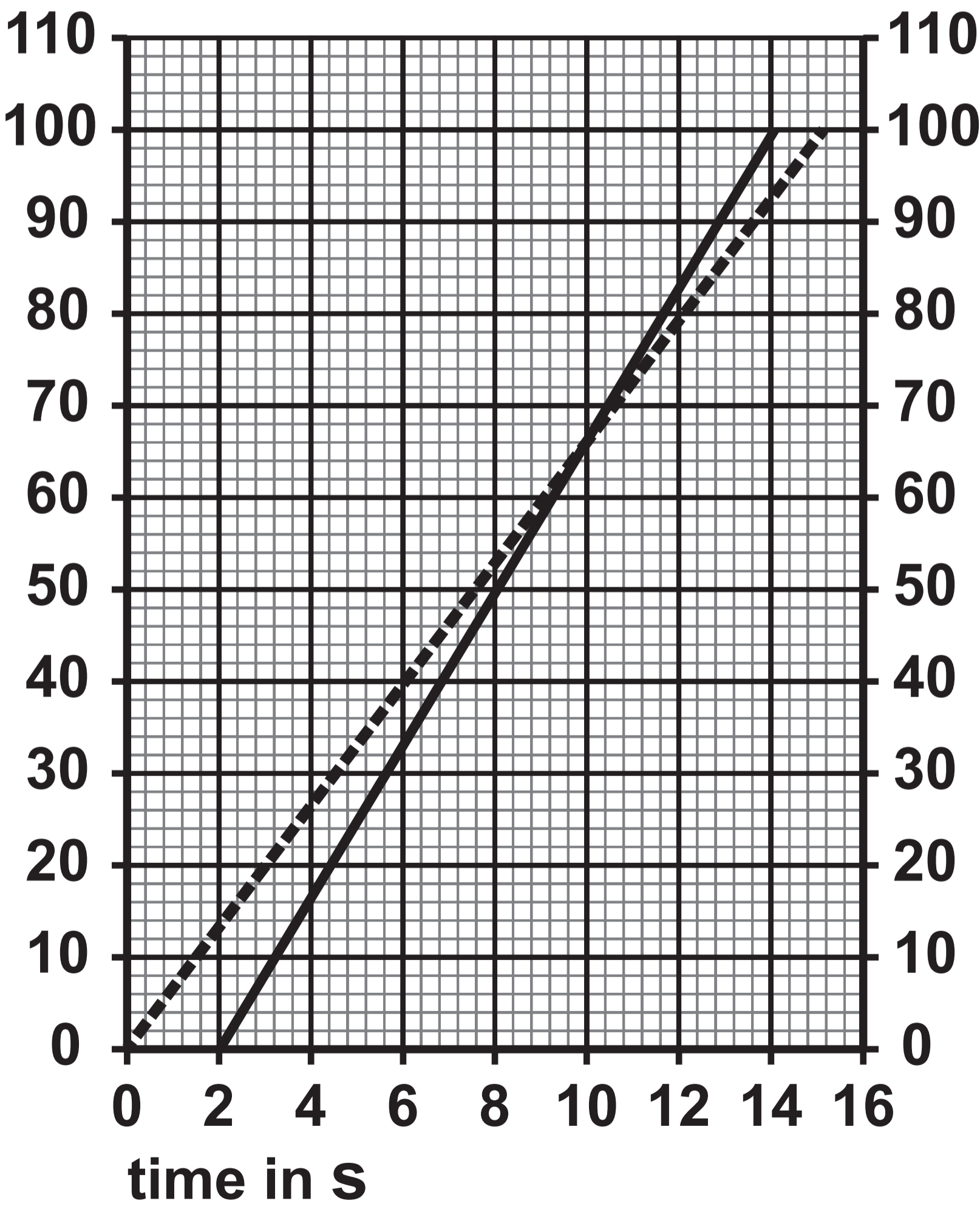
FIGURE 4

KEY

———— M

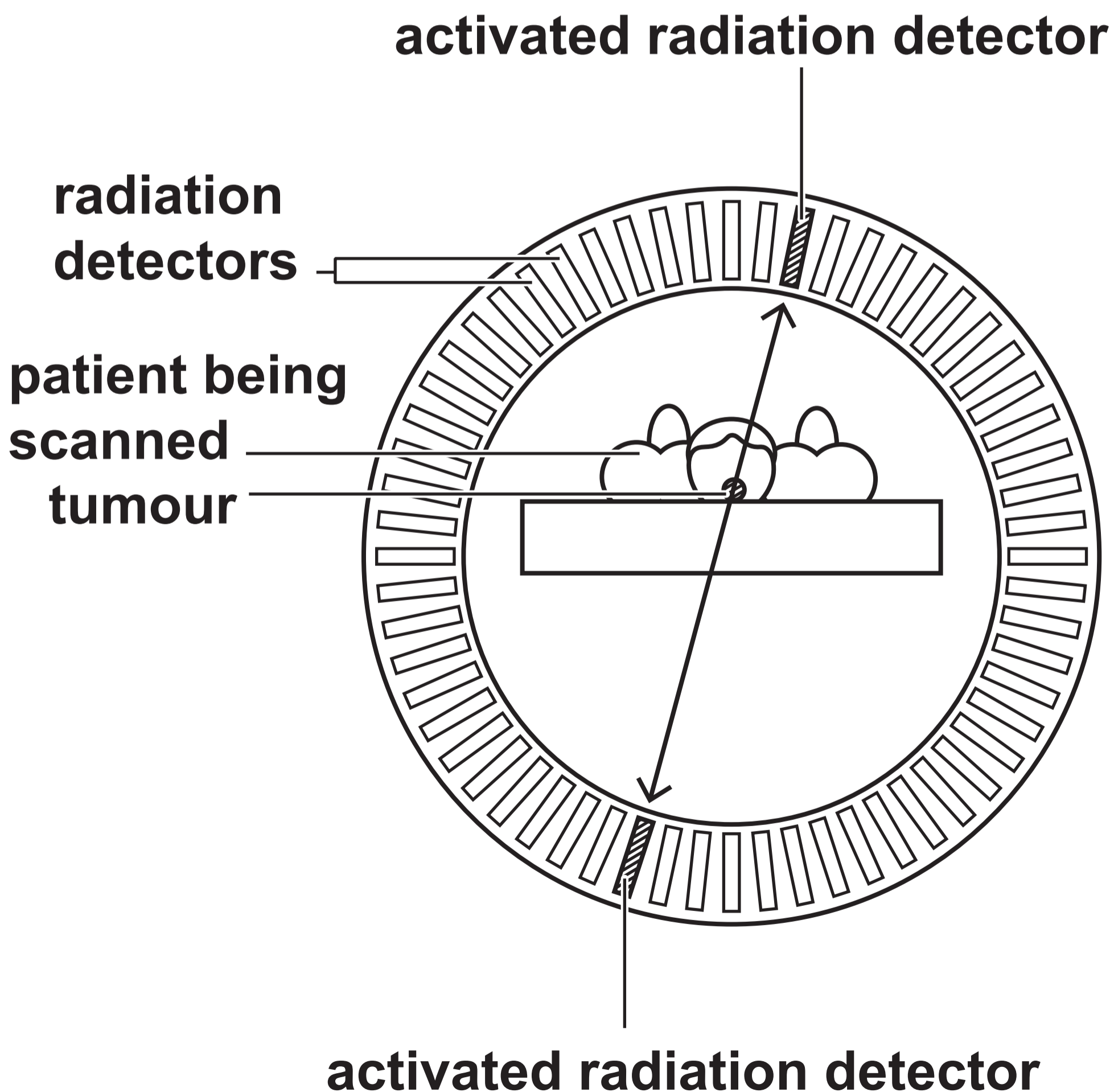
----- L

distance in m



Question 4(b)

FIGURE 5



Question 4(d)

FIGURE 6

KEY

..... isotope Q

—— isotope P

activity in Bq

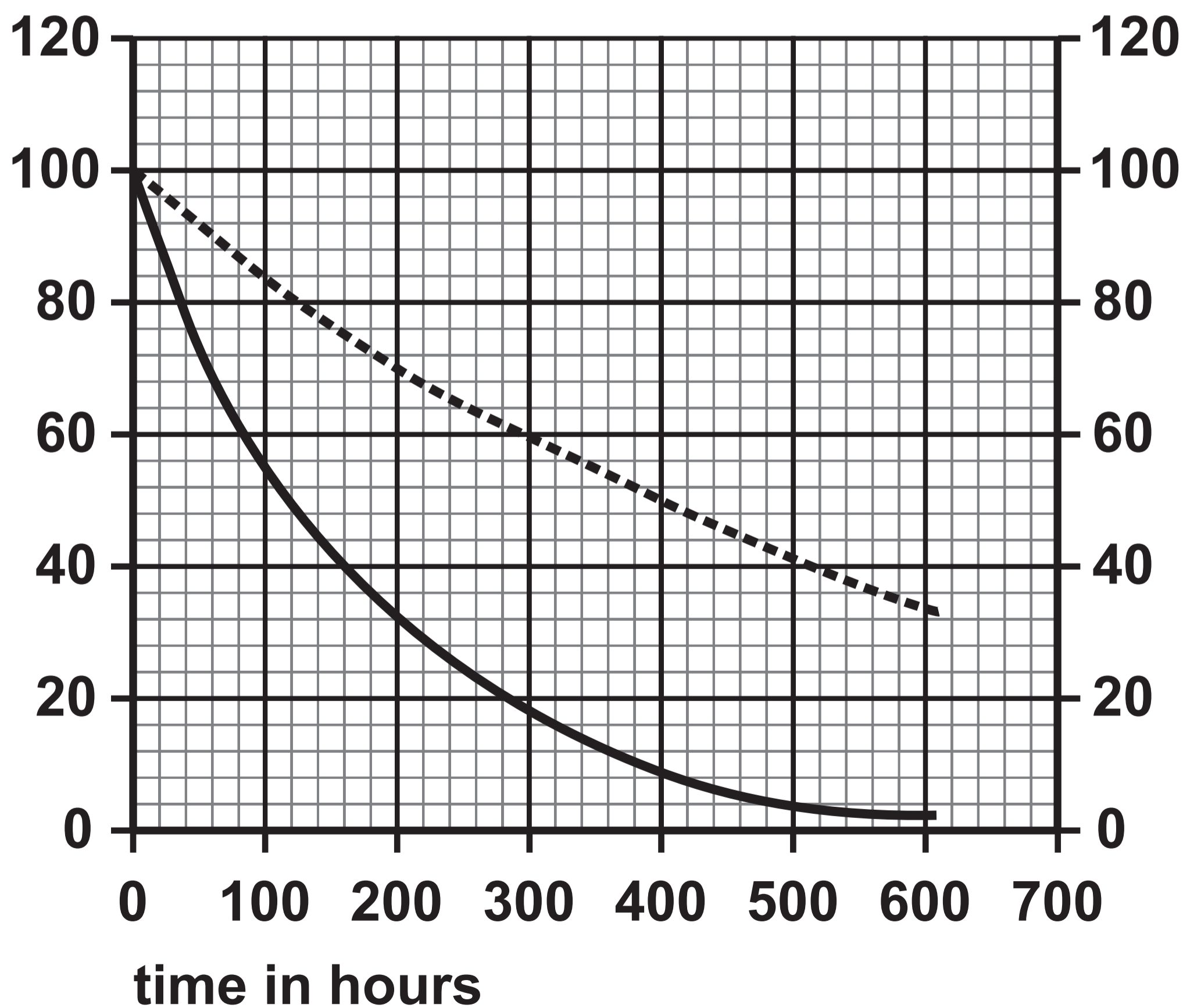


FIGURE 7

	UVA	UVB	UVC
wavelength range	400 nm to 315 nm	314 nm to 280 nm	279 nm to 100 nm
% energy absorbed by the Earth's atmosphere	5%	95%	100%

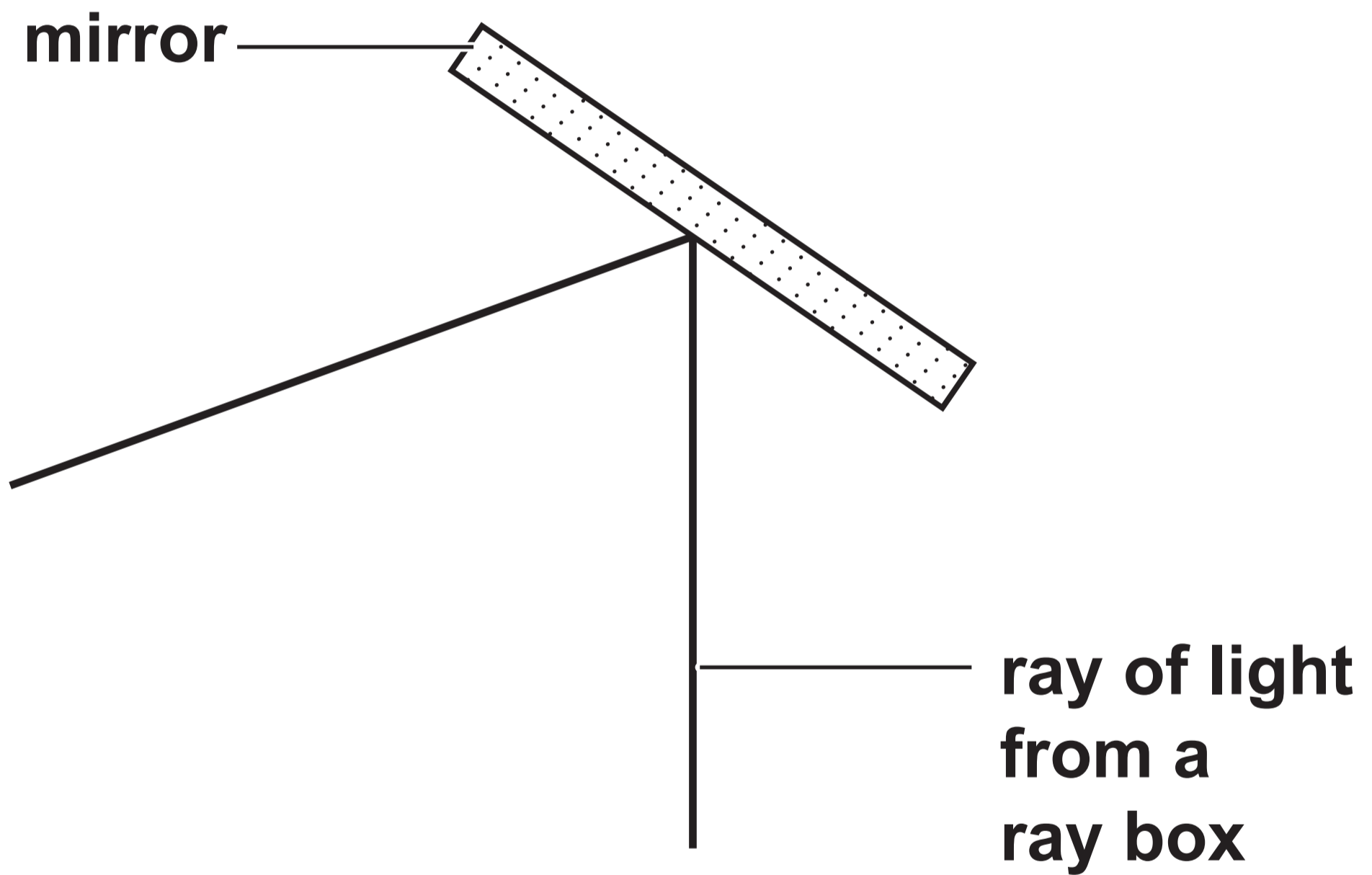
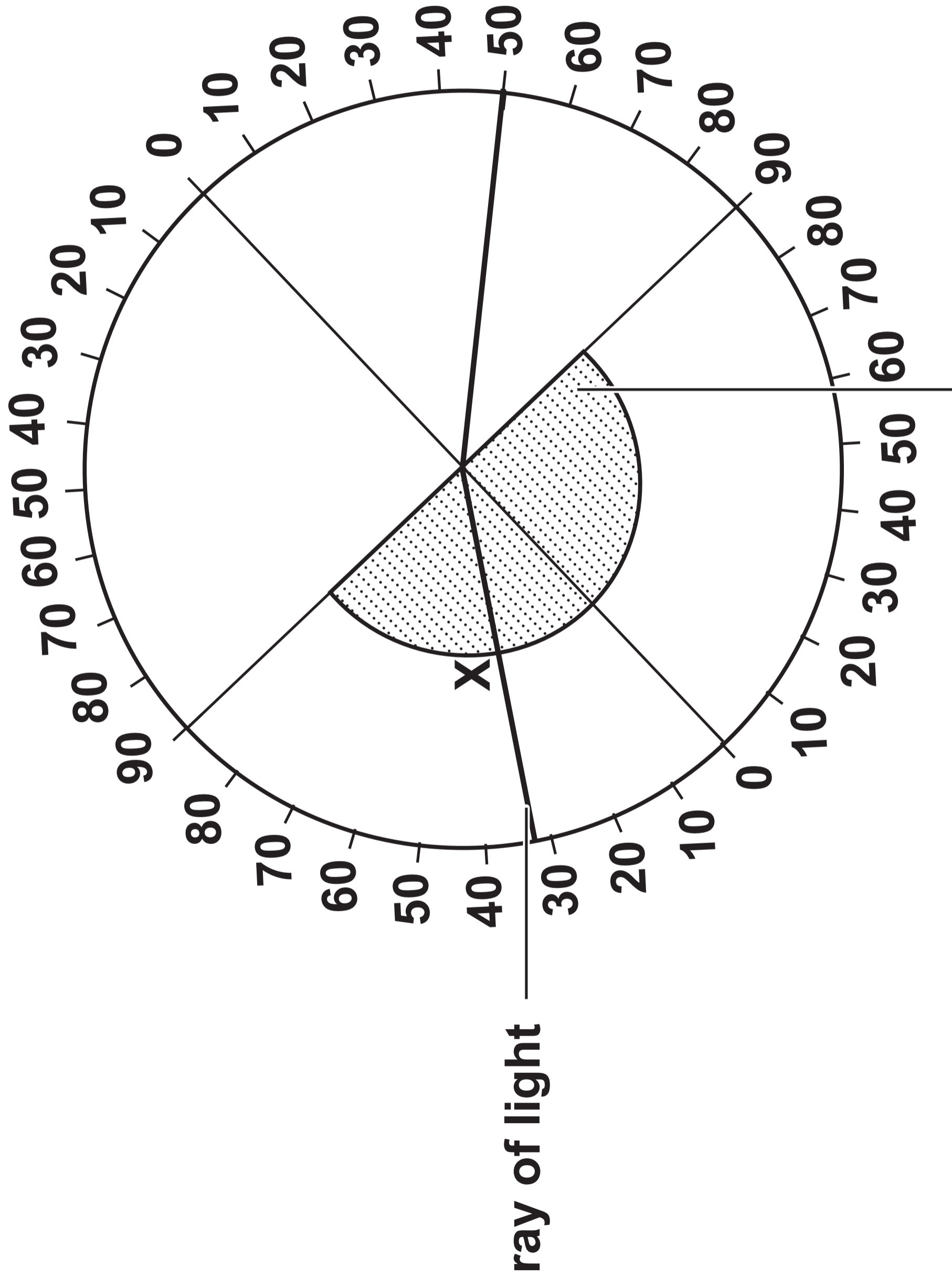
Question 6(a)(ii)**FIGURE 8**

FIGURE 9



semi-circular glass block

FIGURE 10

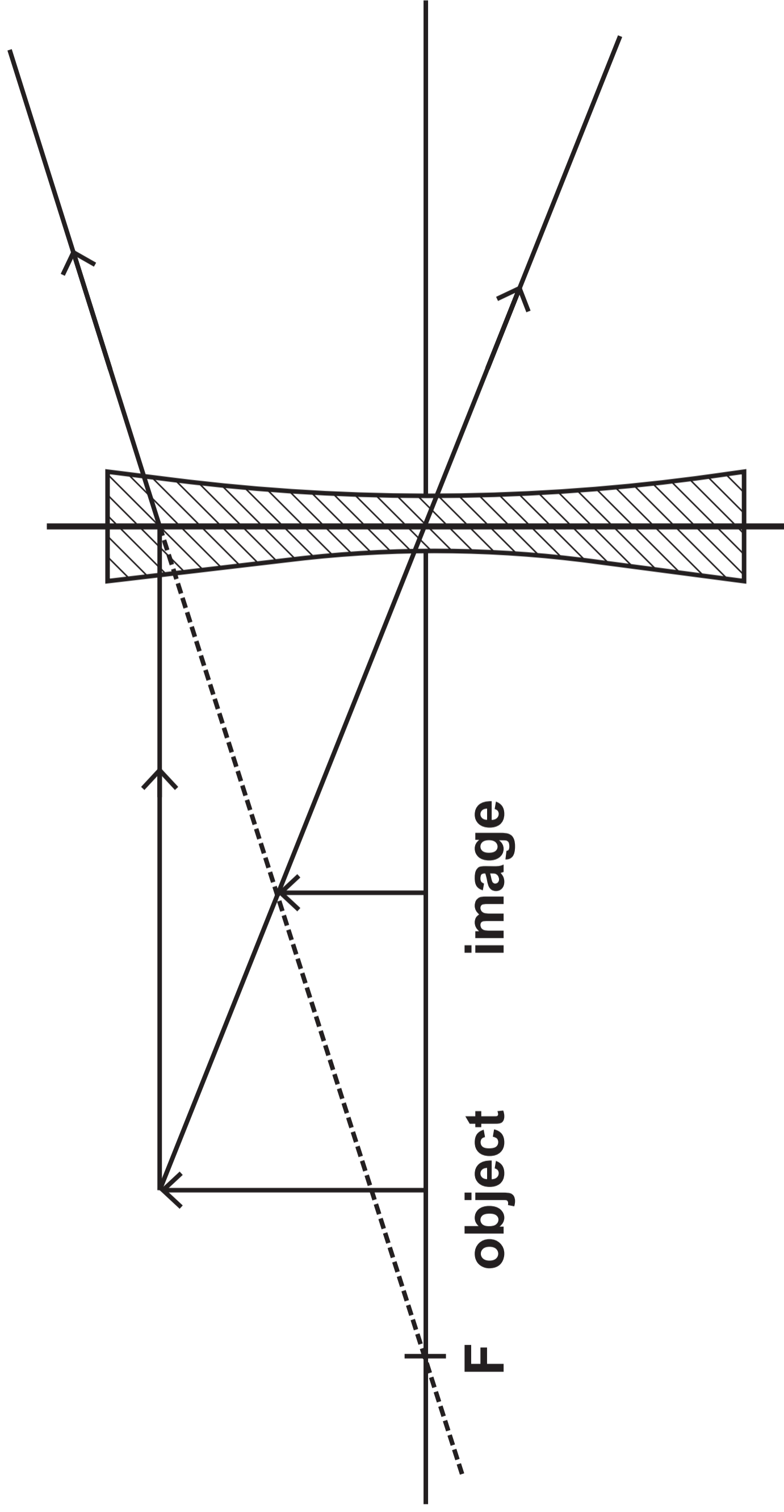
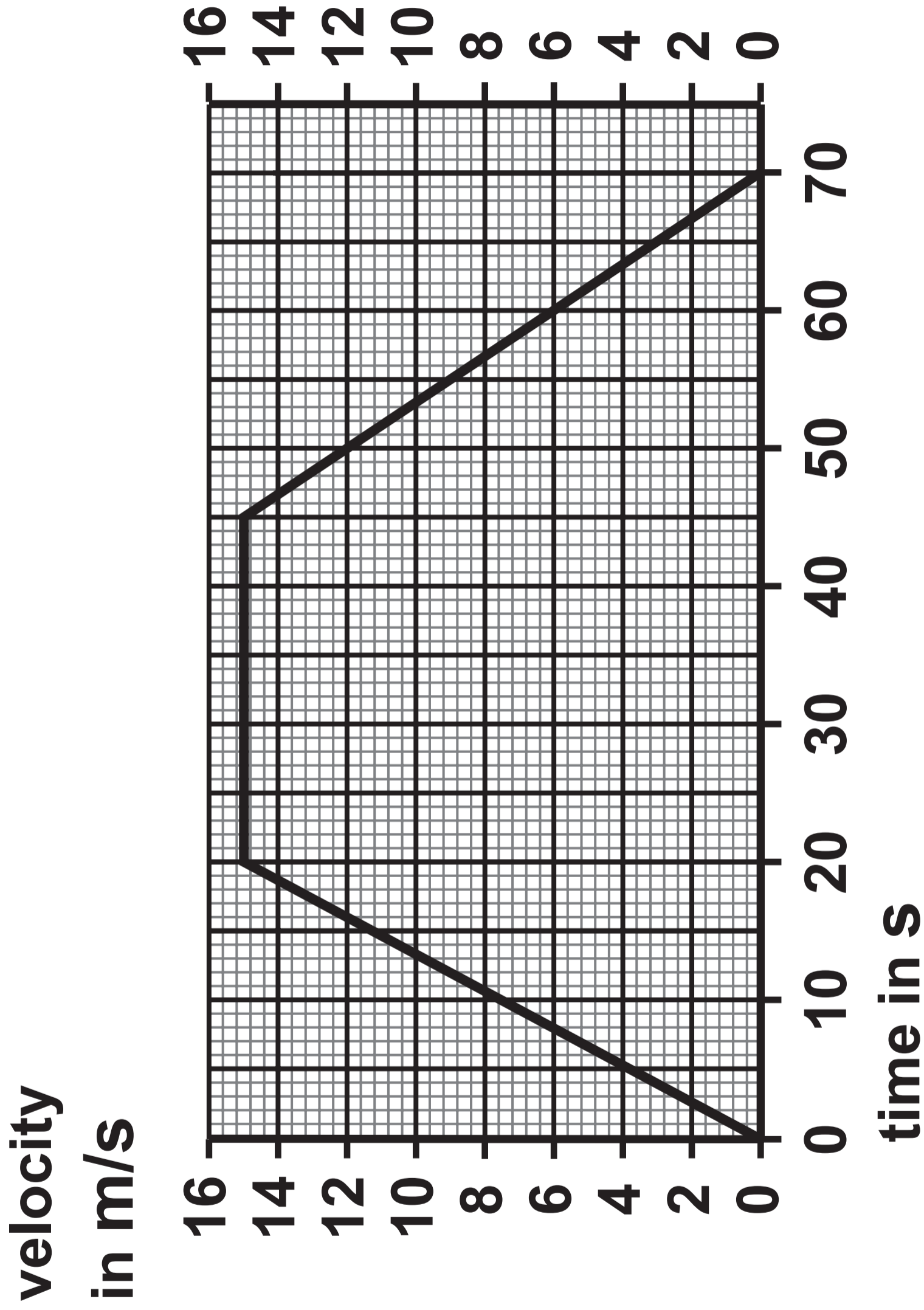


FIGURE 11

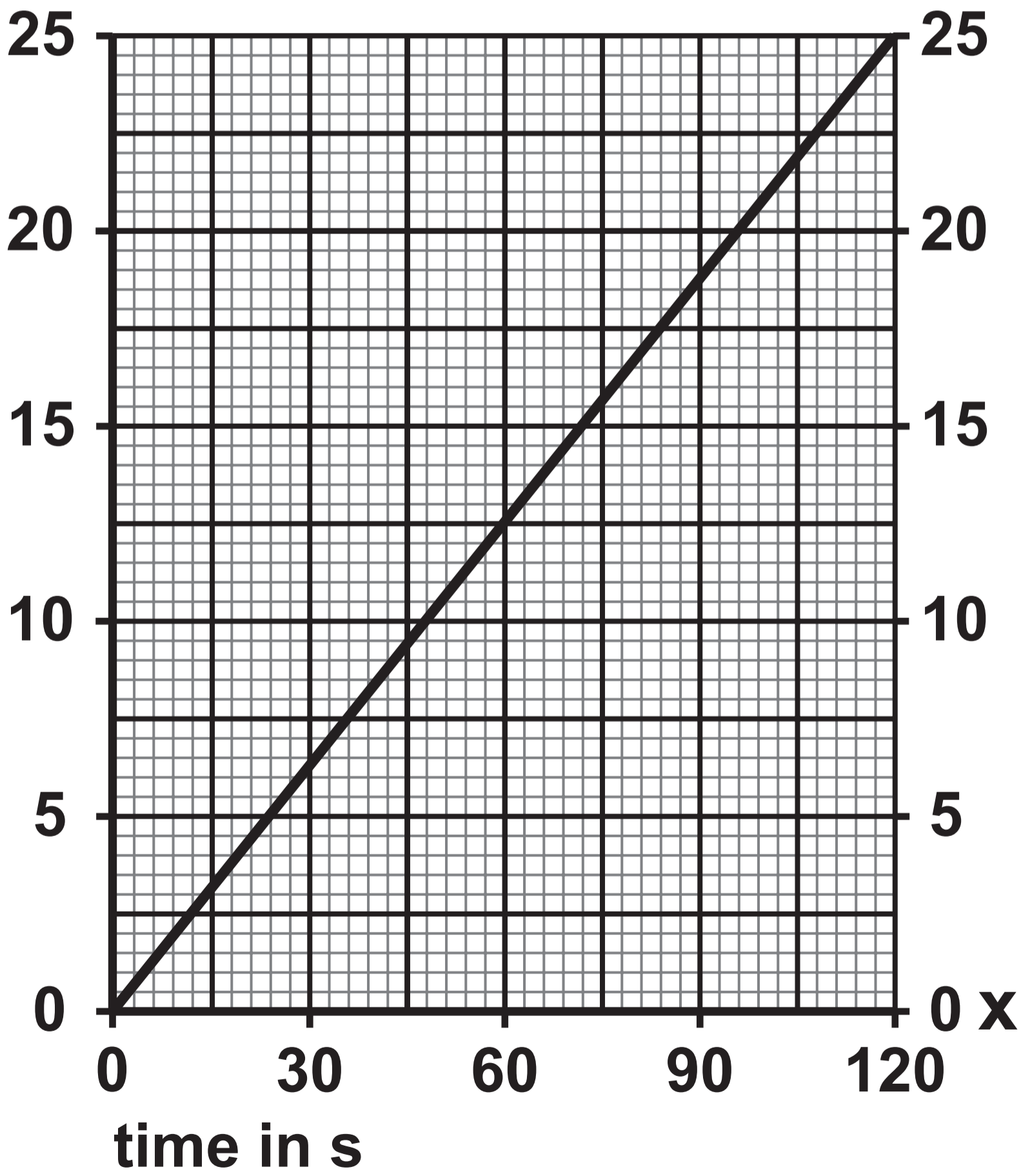


Question 7(c)

FIGURE 12

velocity in m/s

y



Question 8(d)(iv)

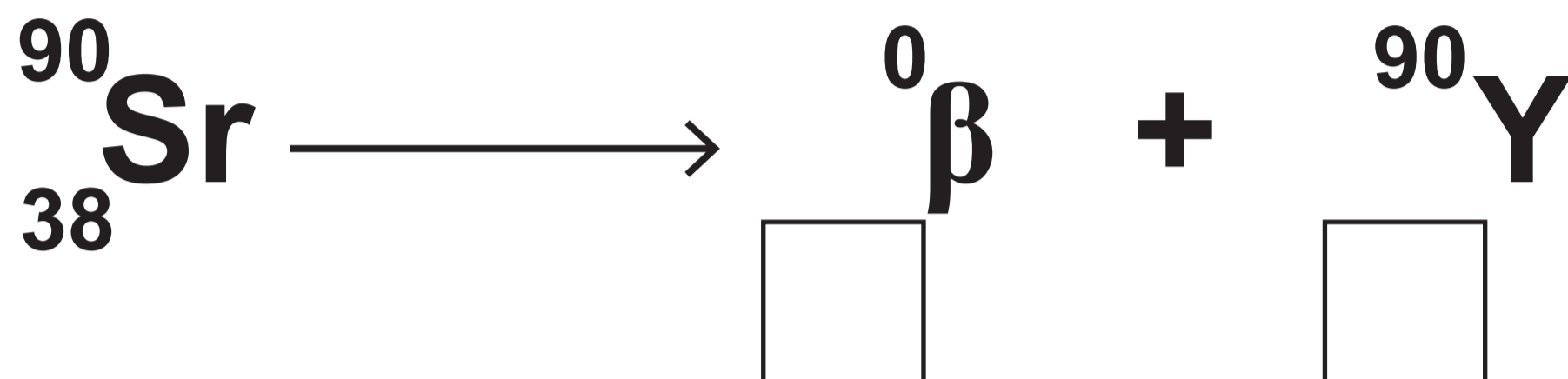


FIGURE 13

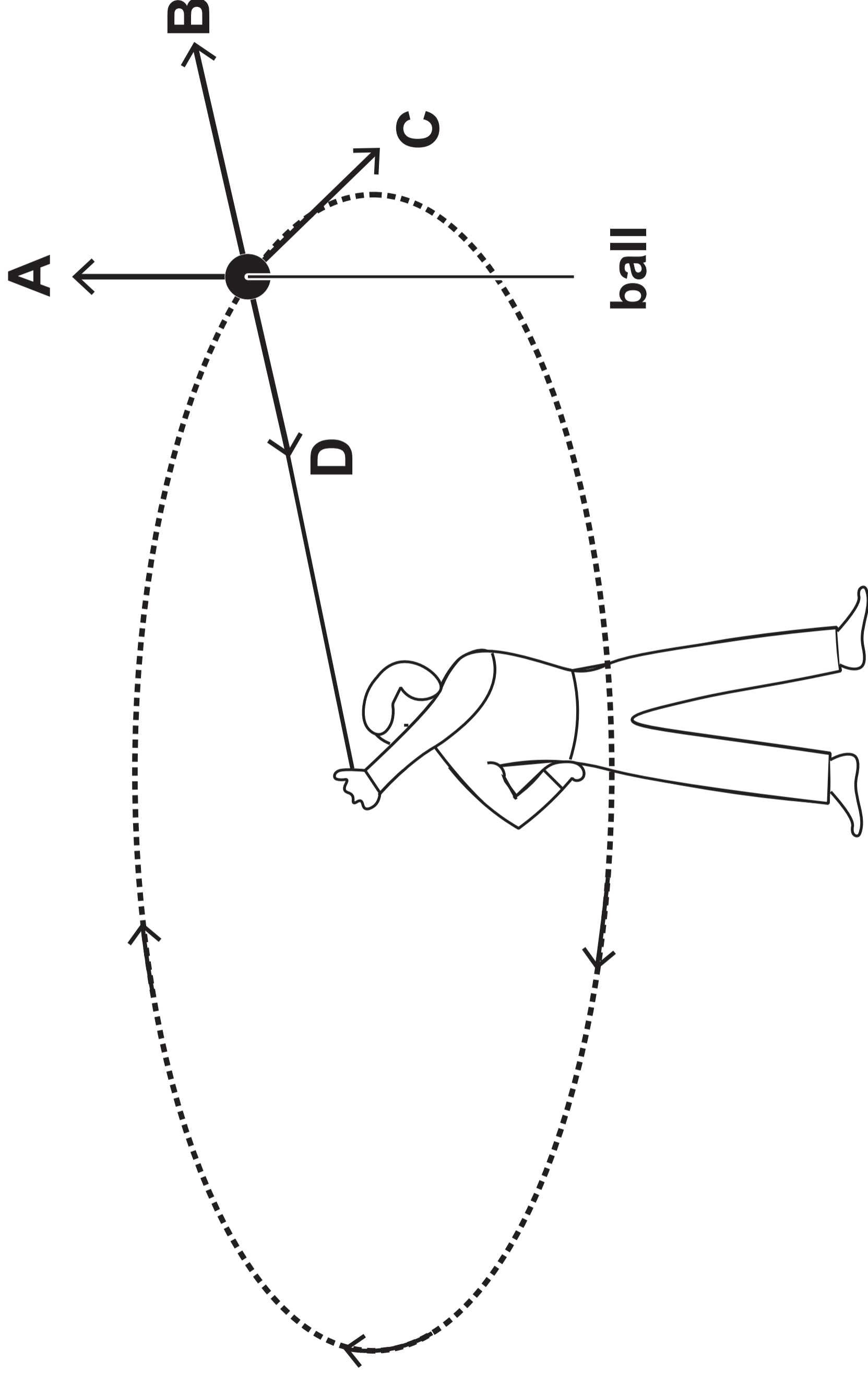
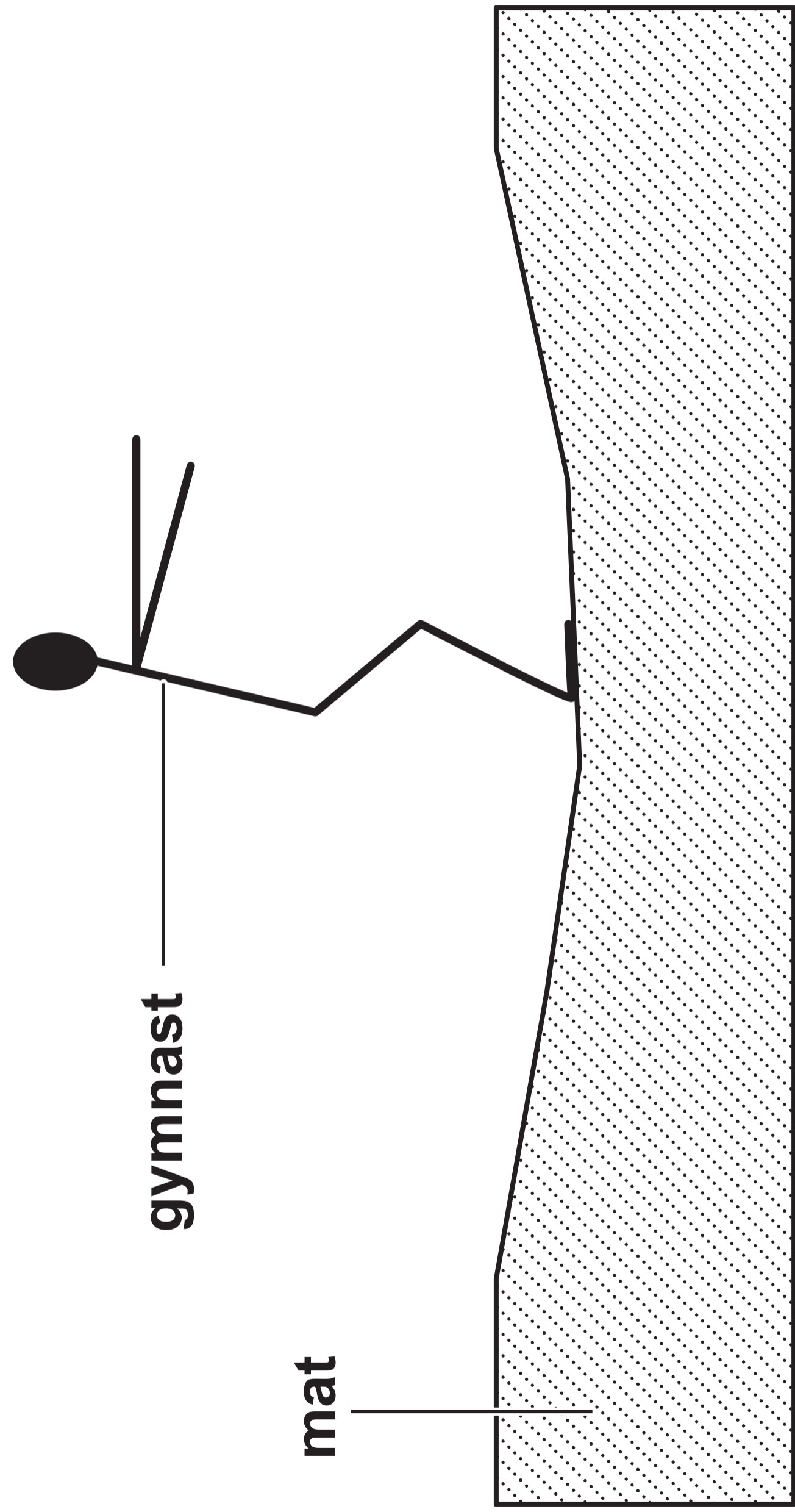


FIGURE 14



Question 9(c)

FIGURE 15

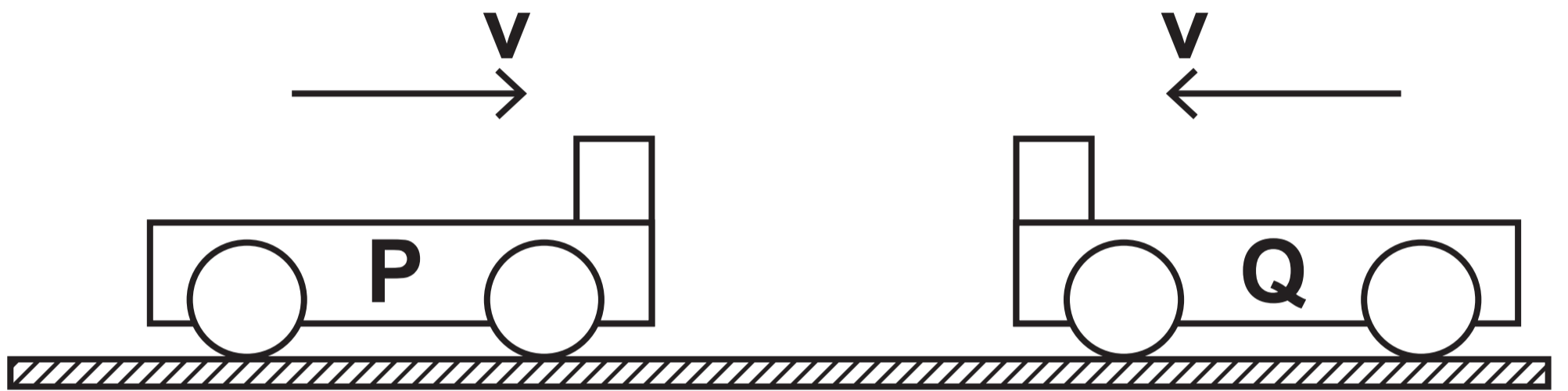
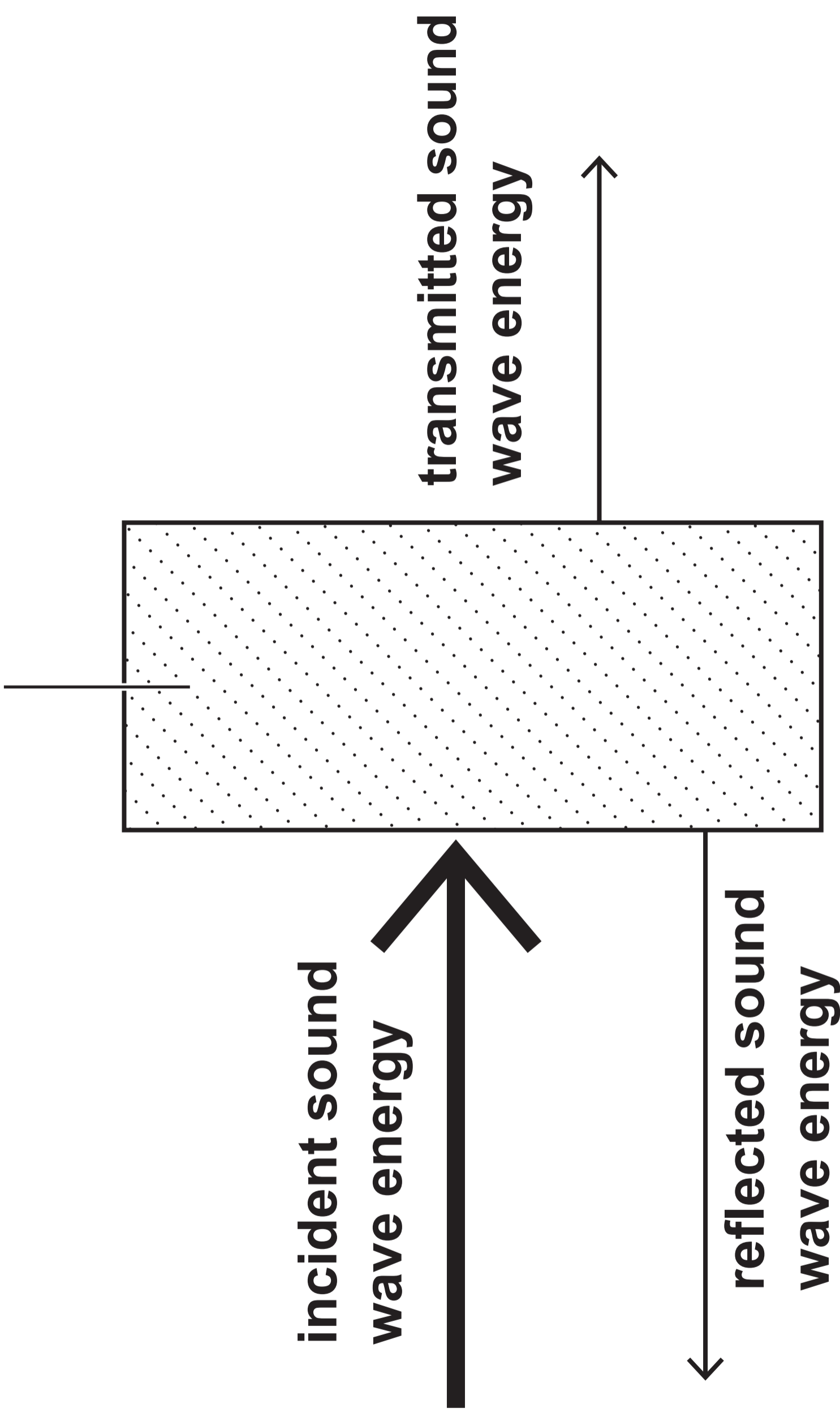


FIGURE 16

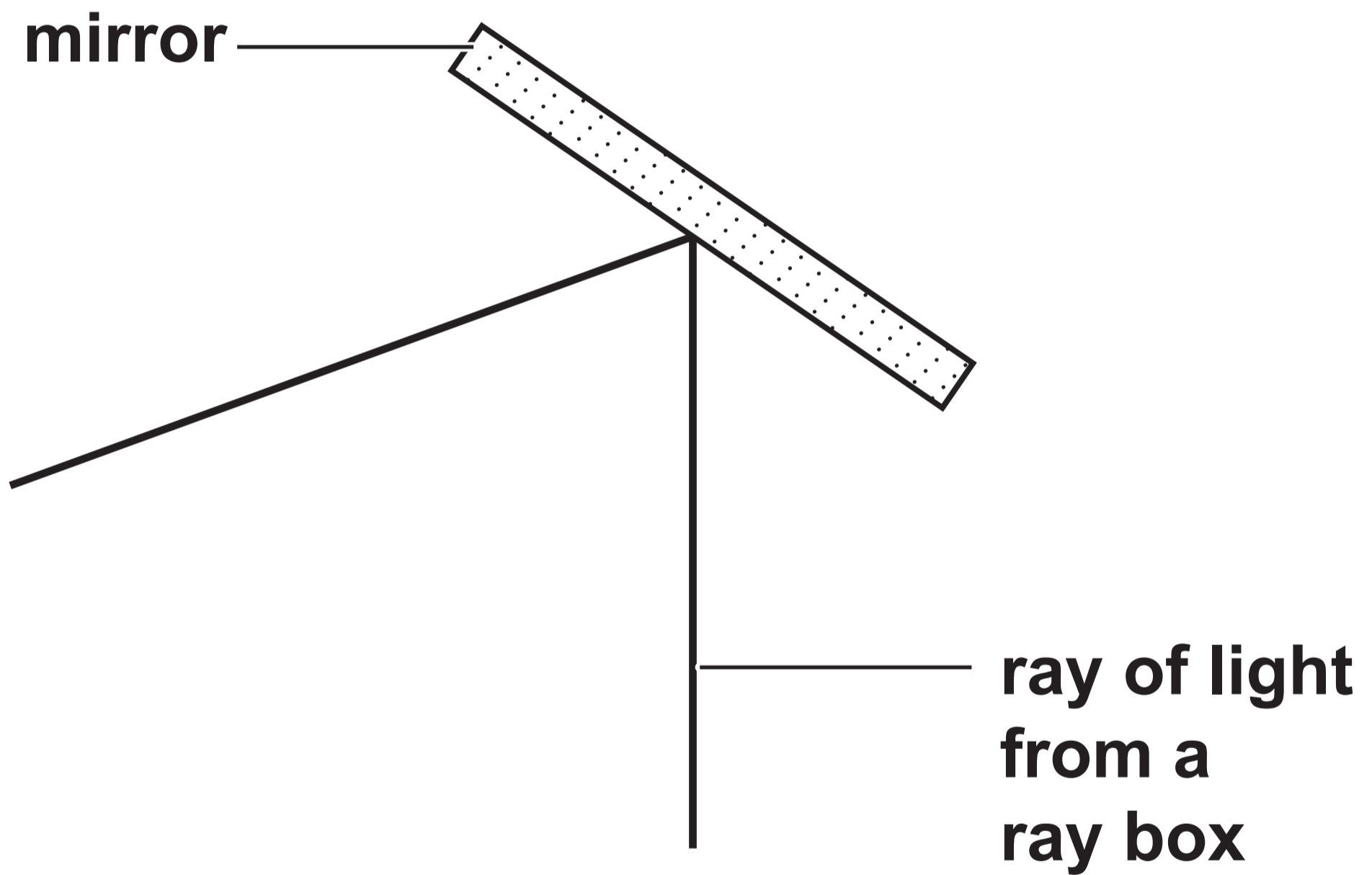
sound-insulating
board, absorber of
sound wave energy



Question 10(c)

FIGURE 17

material	$\alpha = \frac{E_a}{E_i}$
curtains	0.55
painted walls	0.02
wood floors	0.10
carpeted floors	0.60

Question 6(a)(ii)**FIGURE 8**

Question 8(d)(iv)

