

Paper Reference(s) 4PH1/1P 4SD0/1P
Pearson Edexcel International GCSE (9–1)

Physics

Science (Double Award) 4SD0

Paper: 1P

Time: 2 hours plus your additional time allowance

Diagram Booklet

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.

THIS DIAGRAM BOOKLET MUST BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.

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Question 1(b)

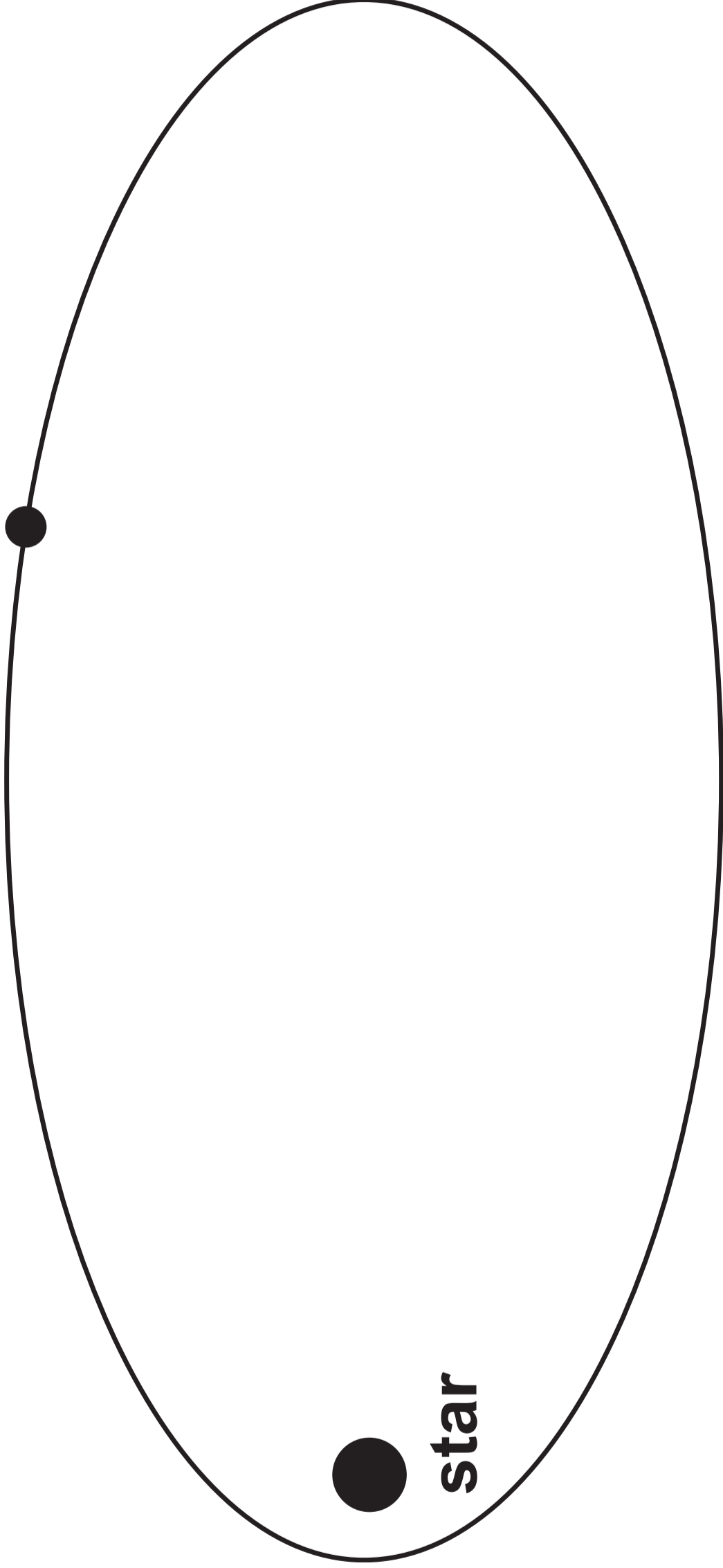
5

not to scale

comet



star



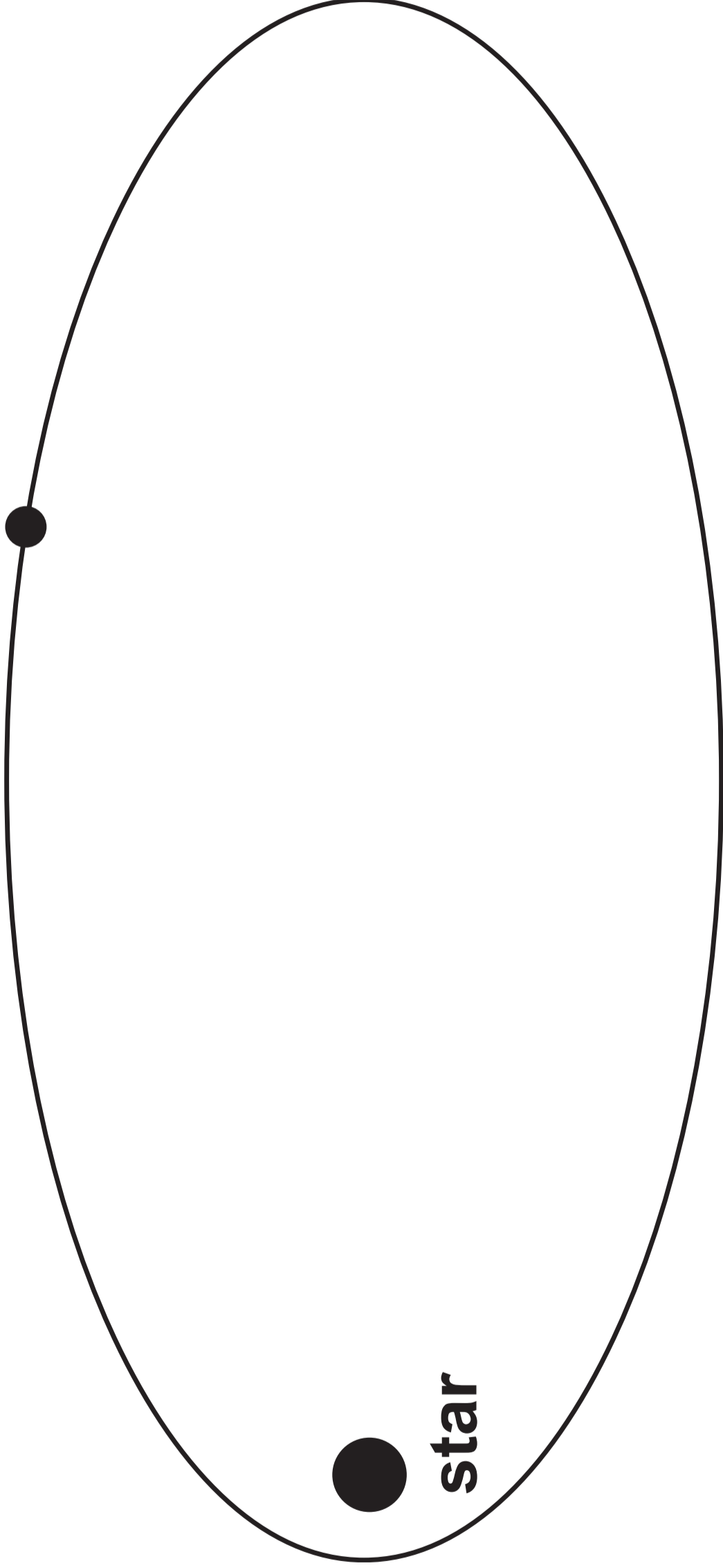
Question 1(b) (Spare copy)

not to scale

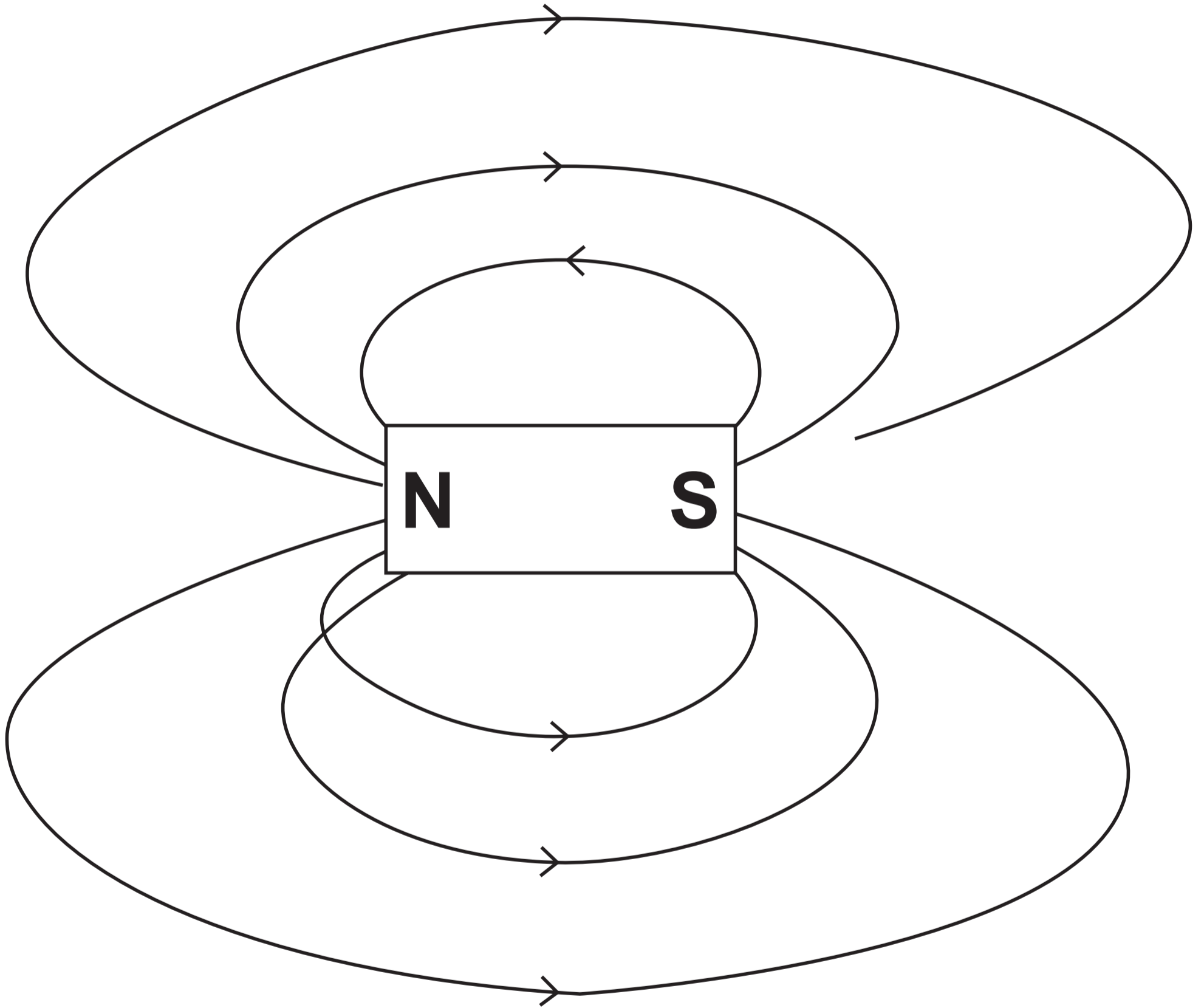
comet



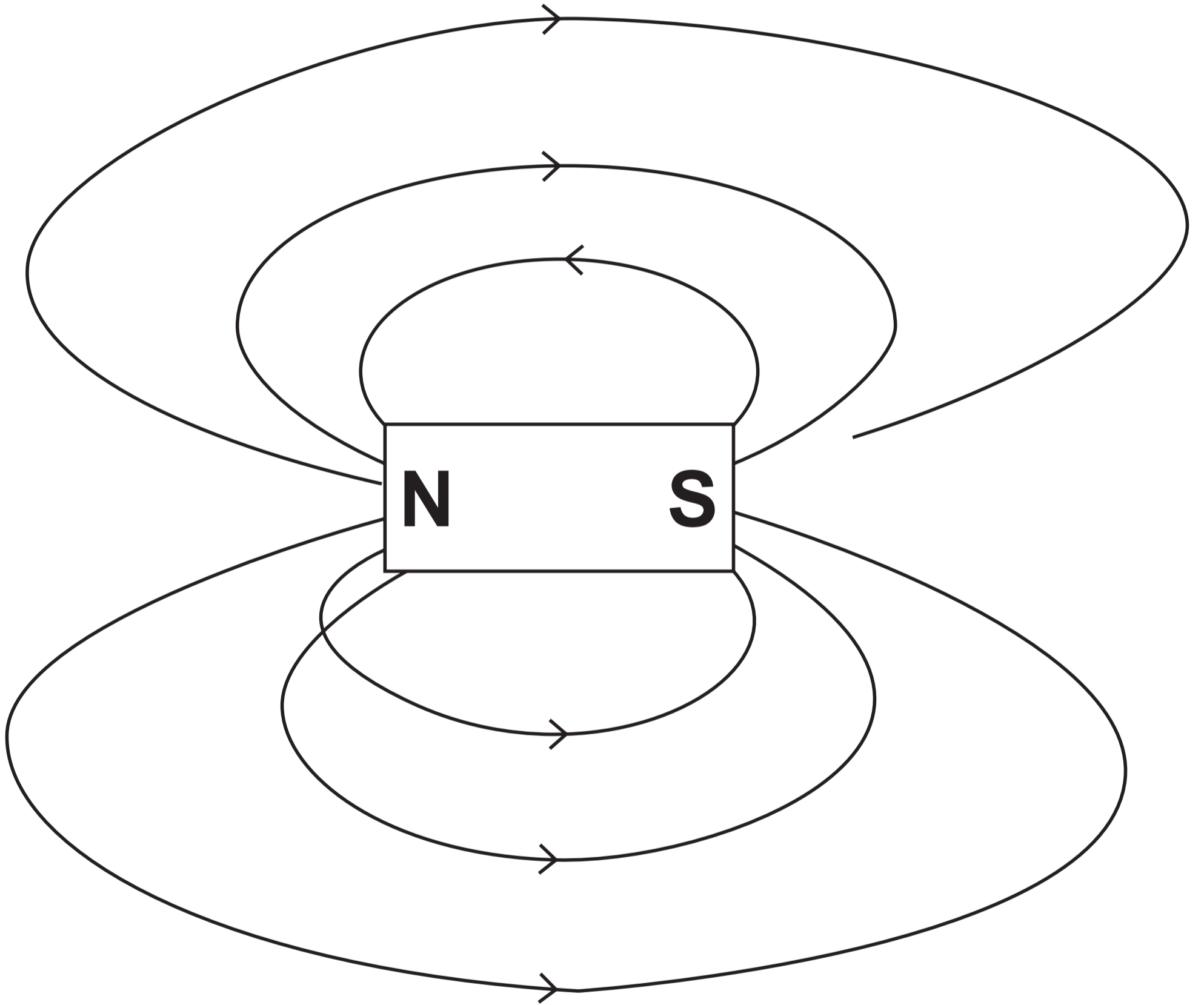
star



Question 2(b)

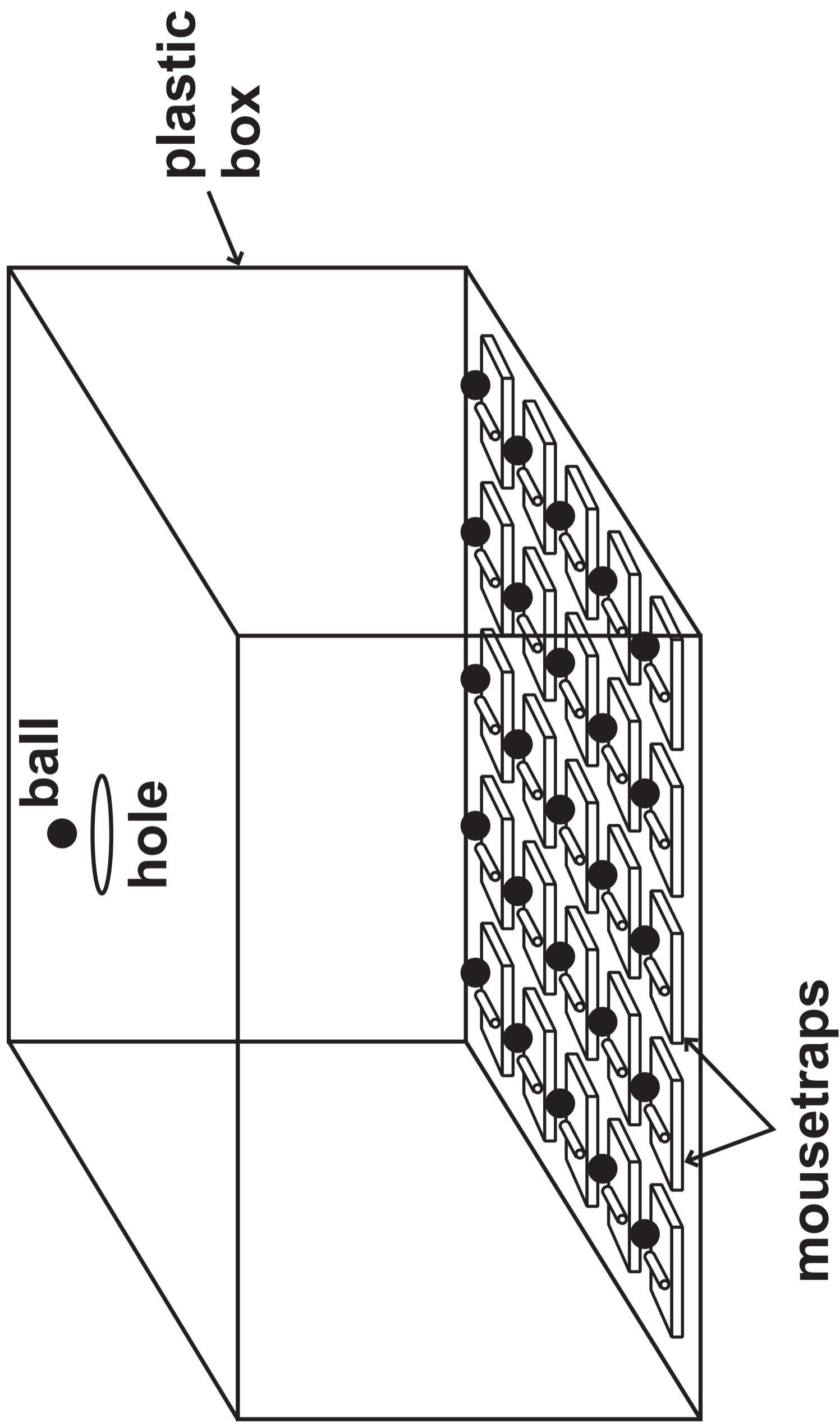


Question 2(b) (Spare copy)



Question 3

9



Question 3(c)

absorb

ionise

neutralise

reflect

slow

boron

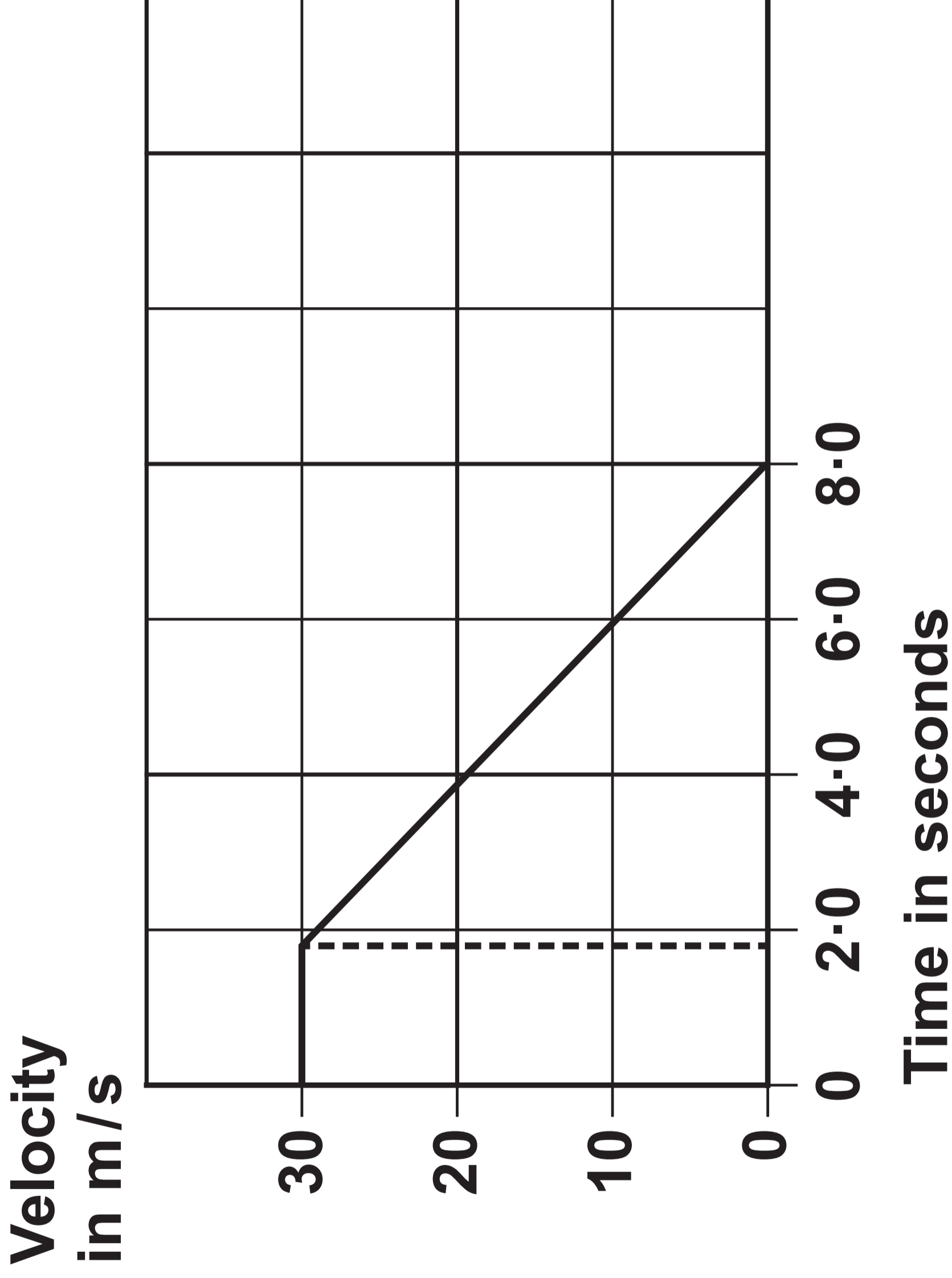
granite

graphite

paper

uranium

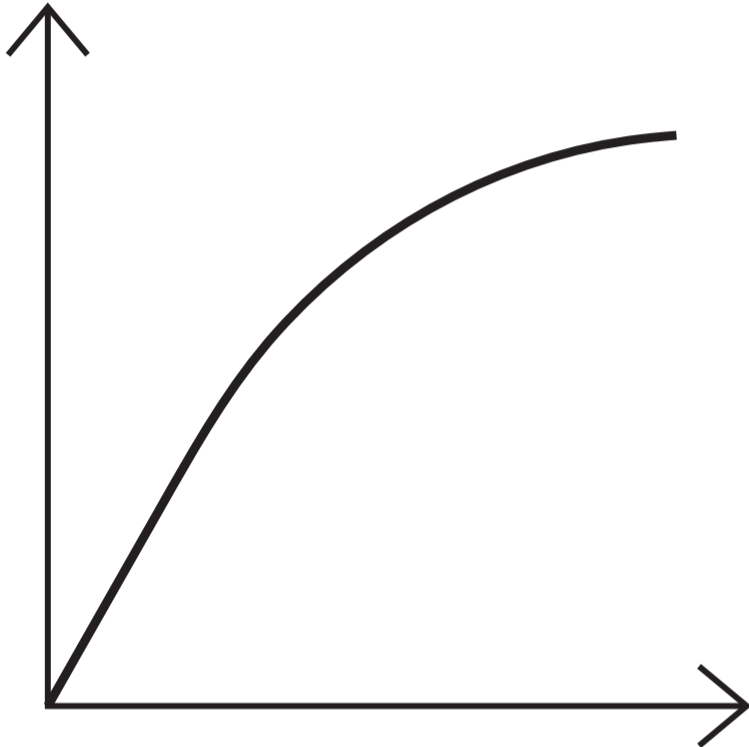
Question 4(a)



Question 4(b)

A

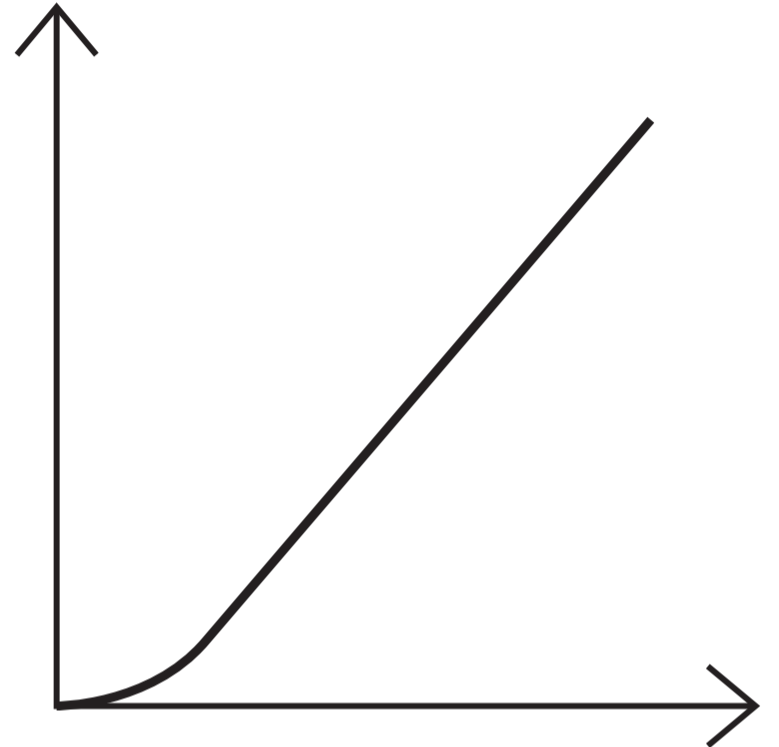
Distance



Time

B

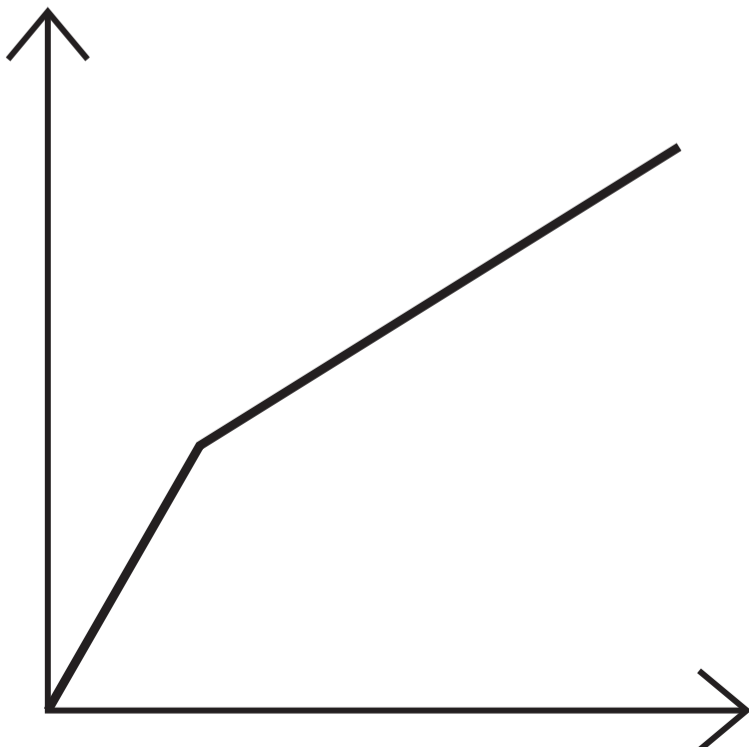
Distance



Time

C

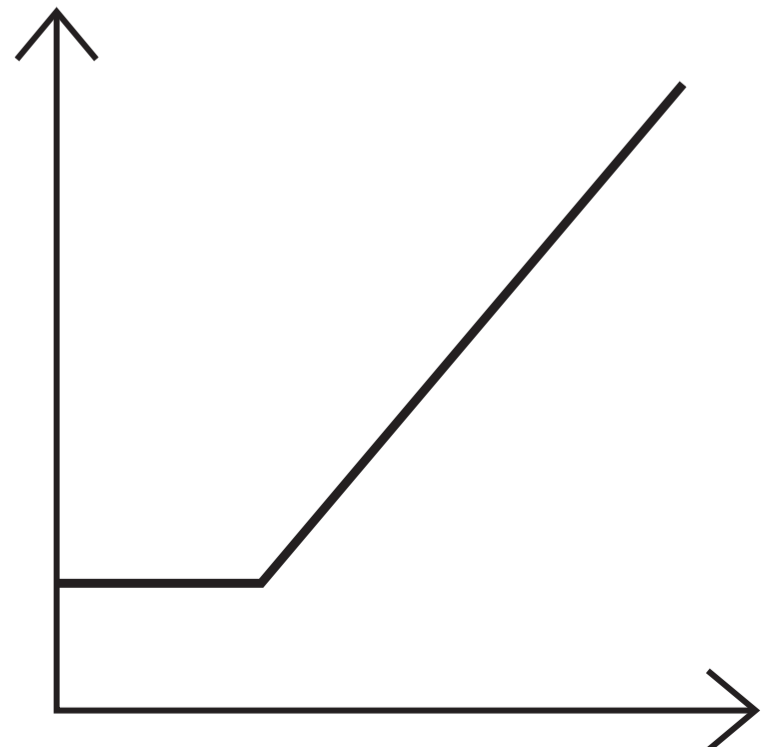
Distance



Time

D

Distance

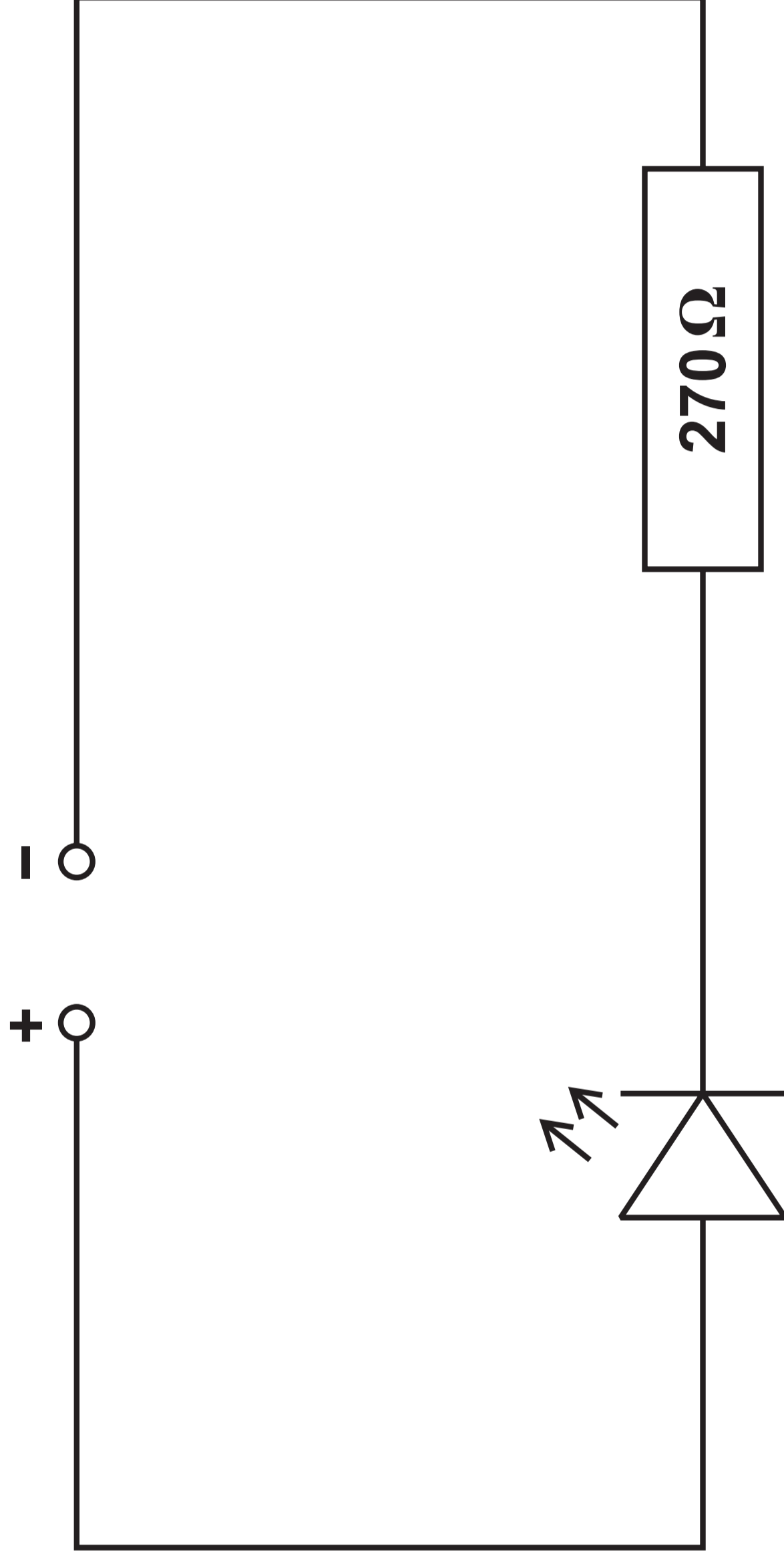


Time

Question 5(a)

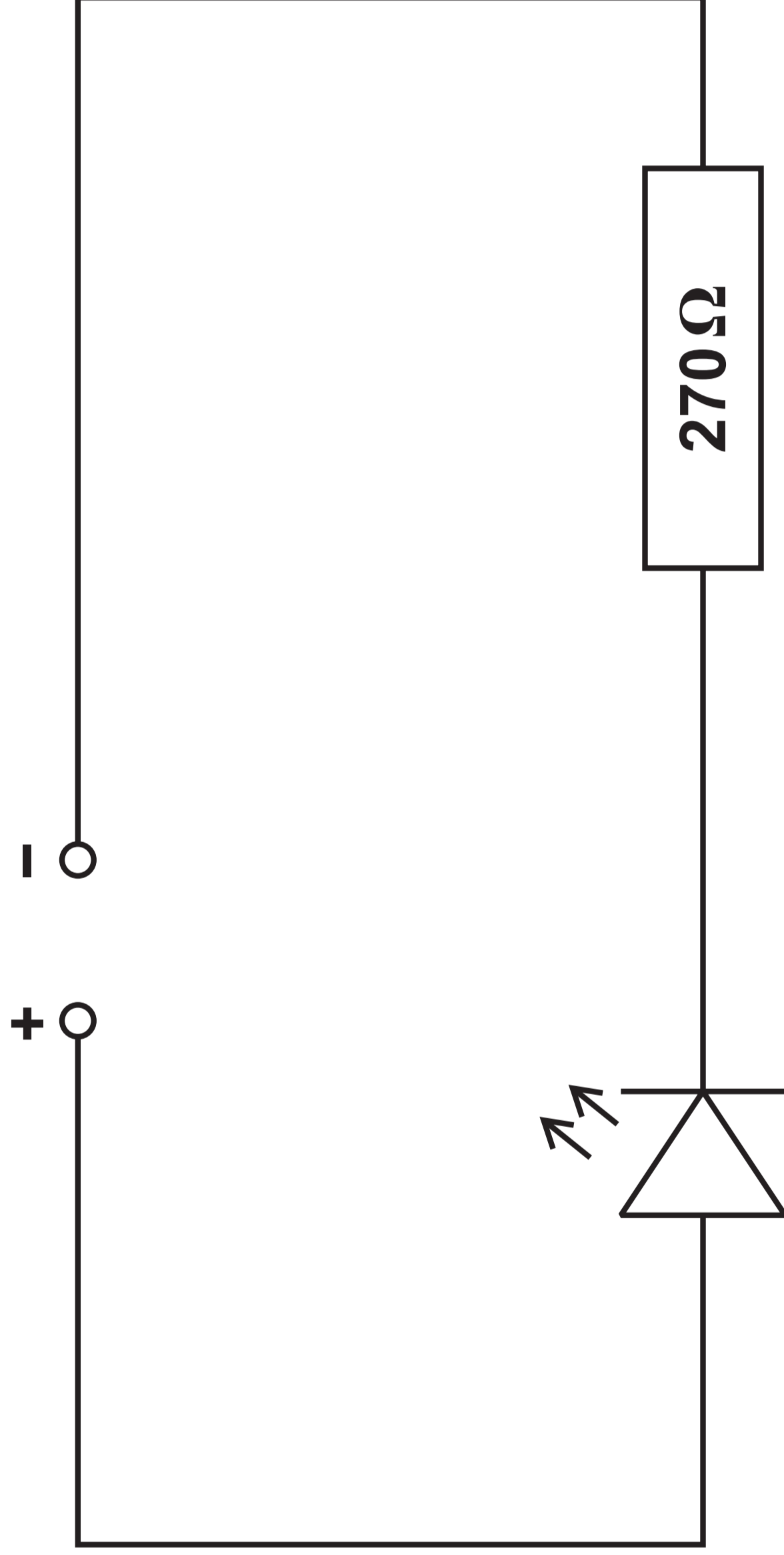
13

variable
power supply

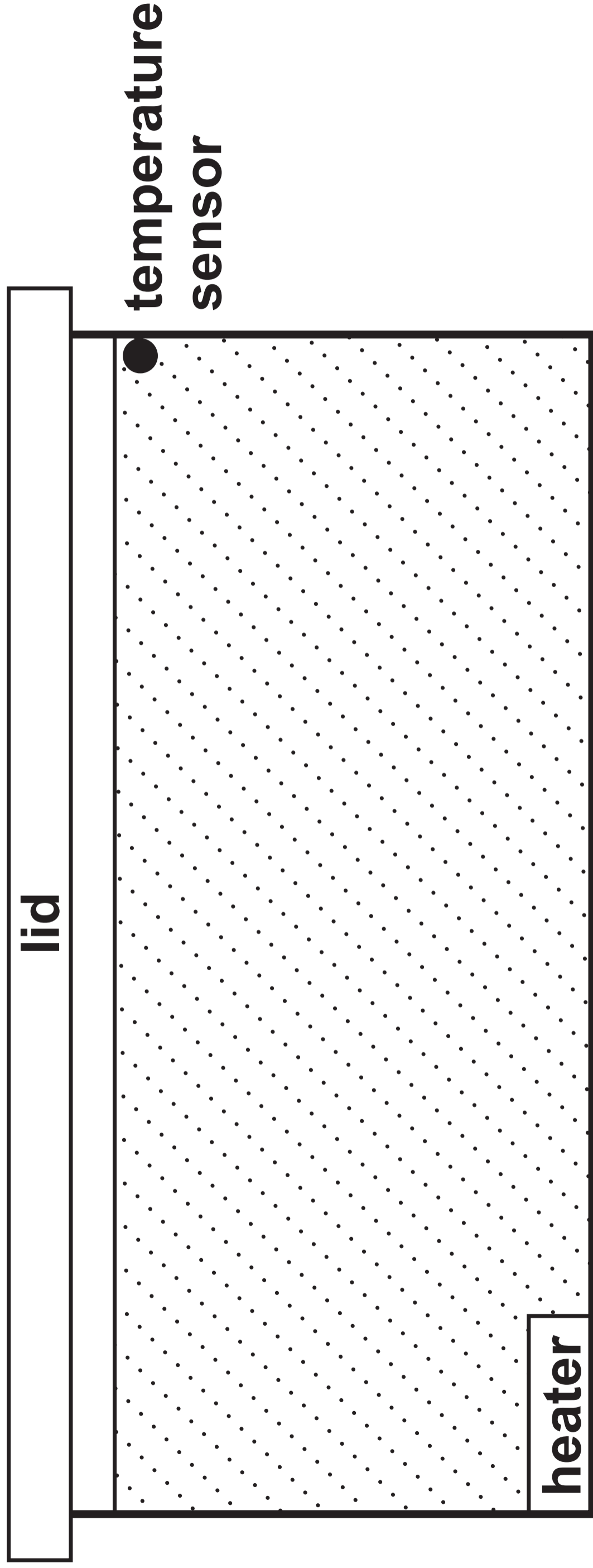


Question 5(a) (Spare copy)

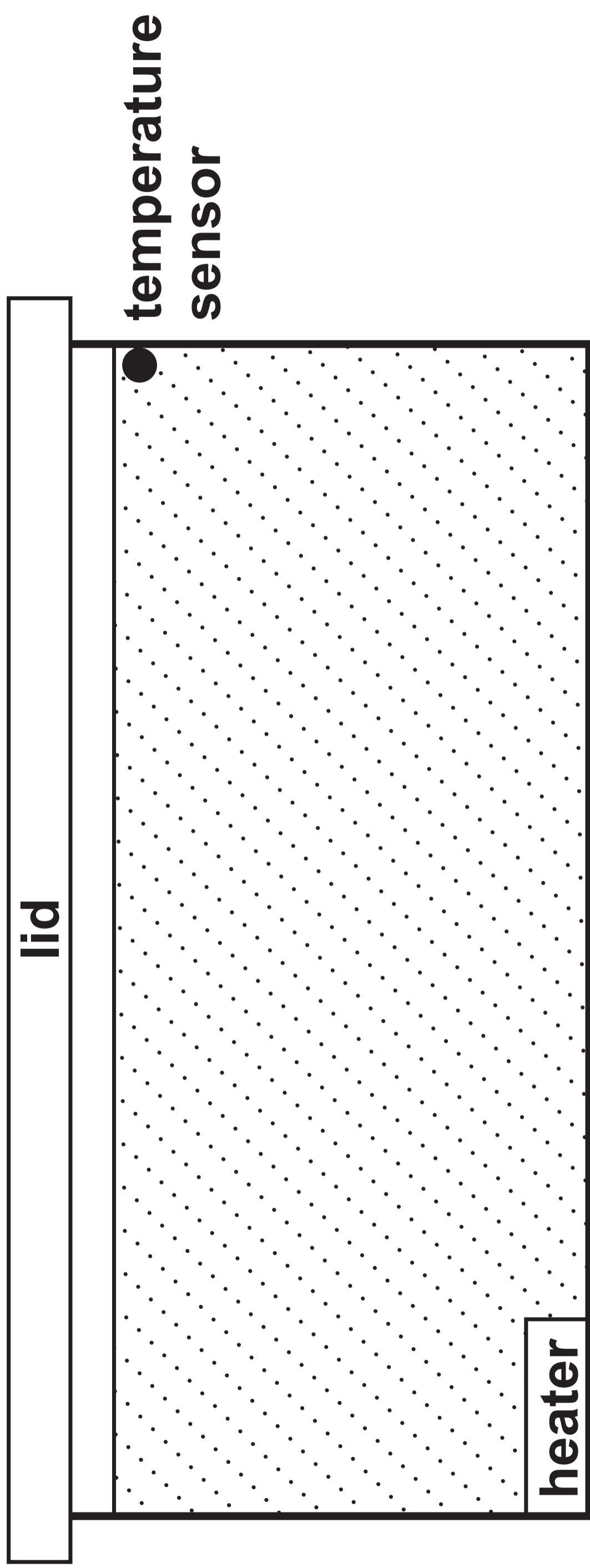
variable
power supply



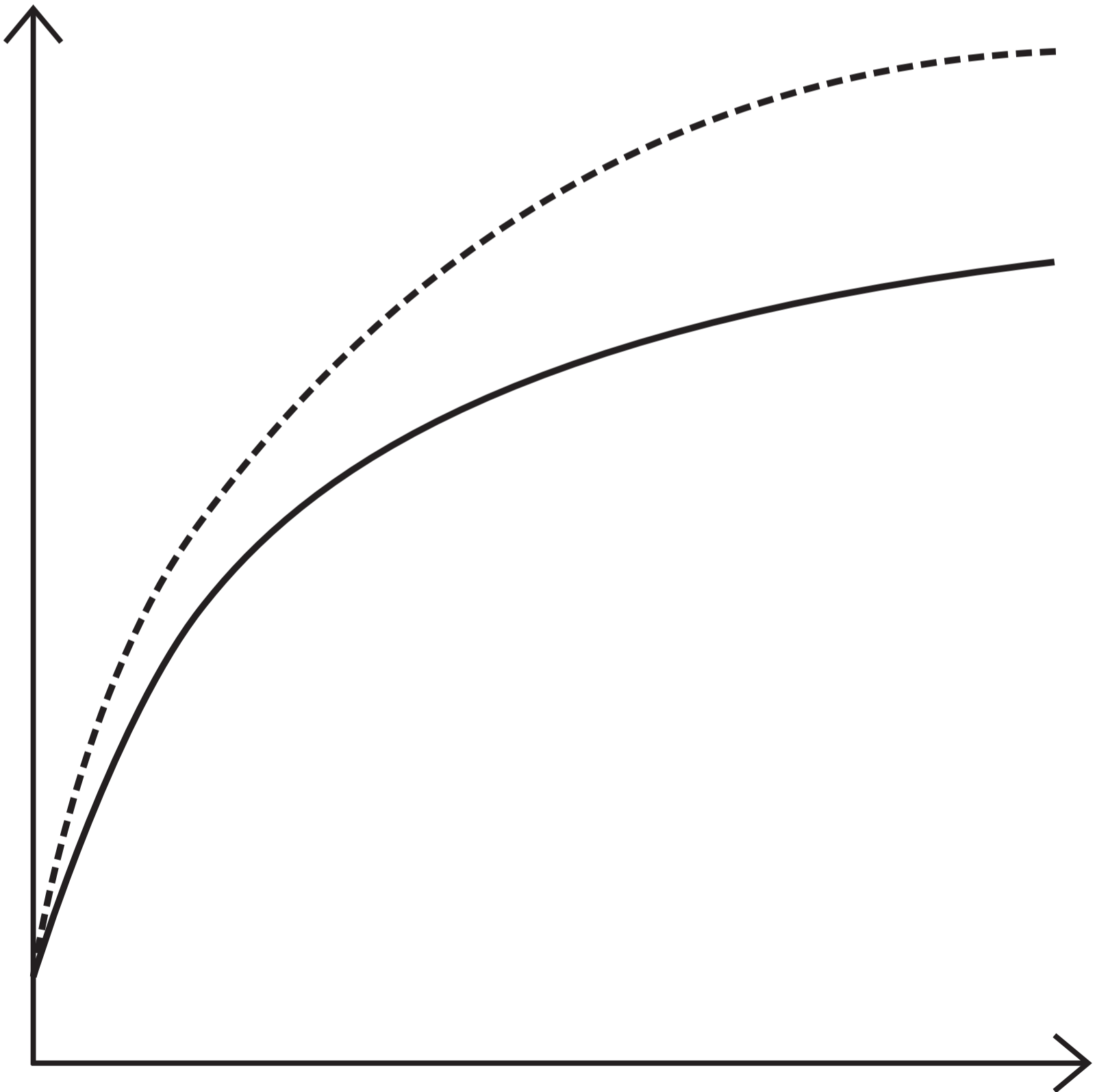
Question 6(a)



Question 6(a) (Spare copy)

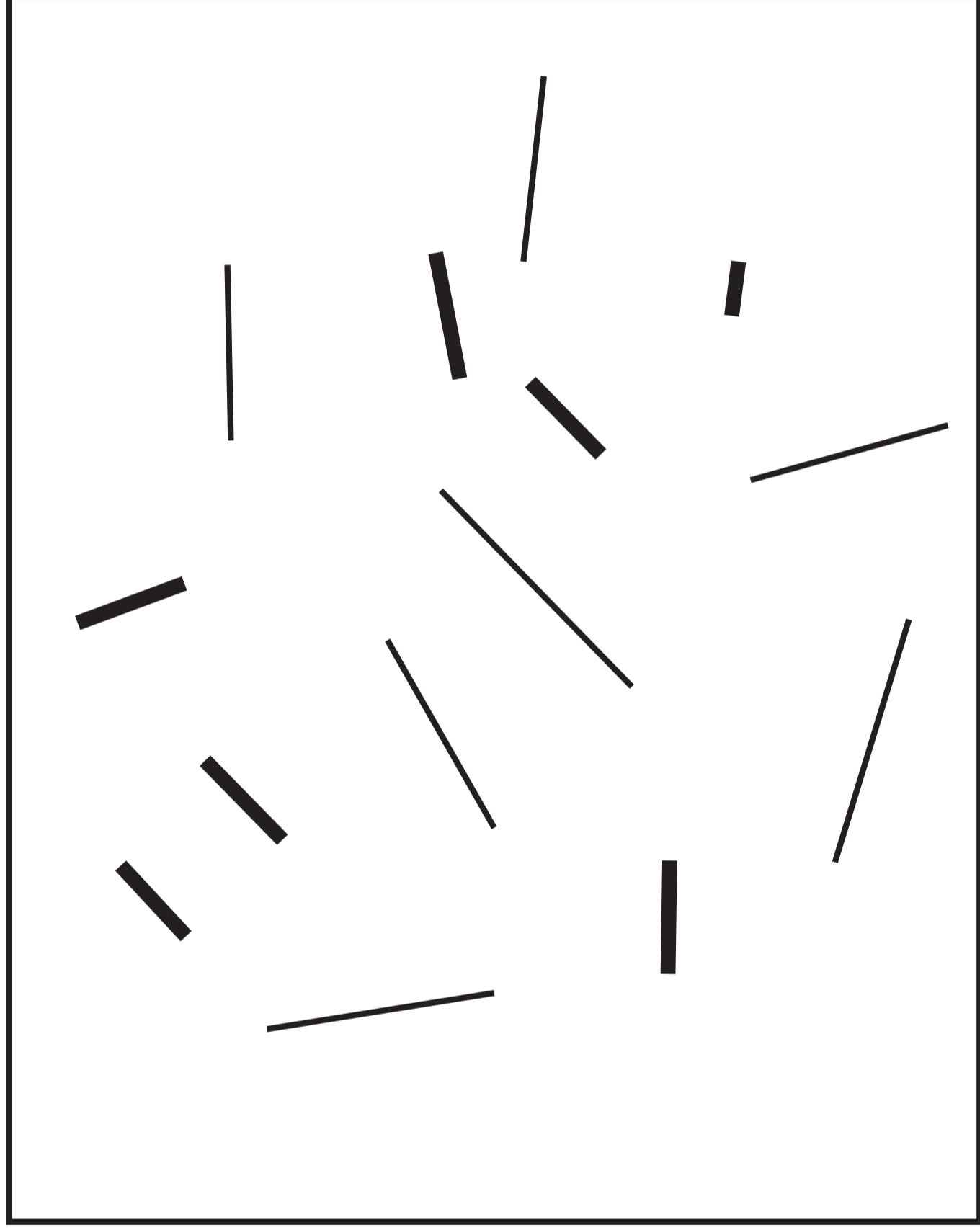


Question 6(b)

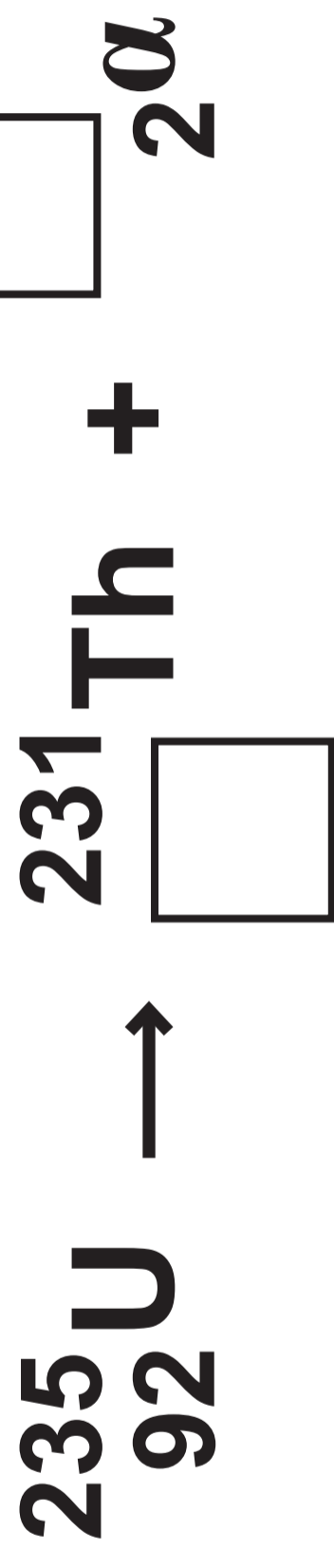
KEY----- **container empty**———— **container full****Temperature****Time**

Question 7(a)

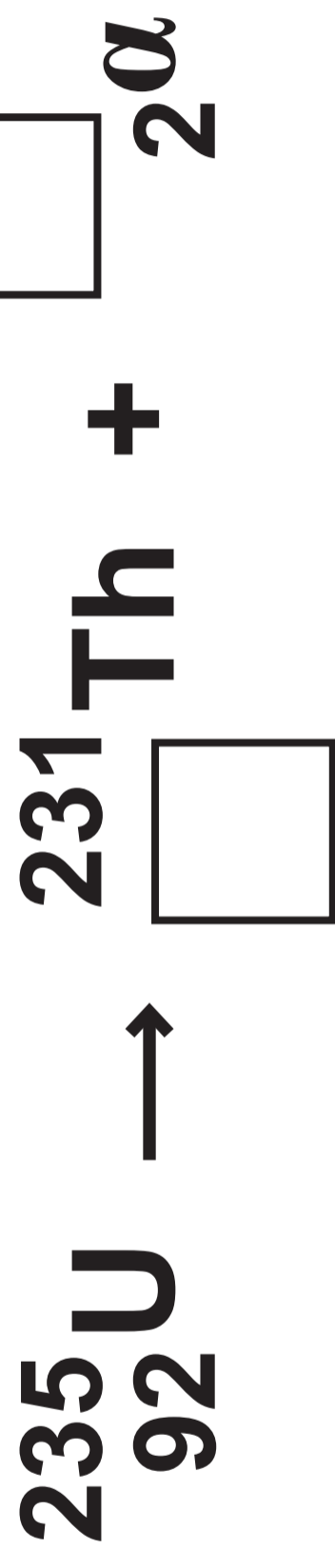
20



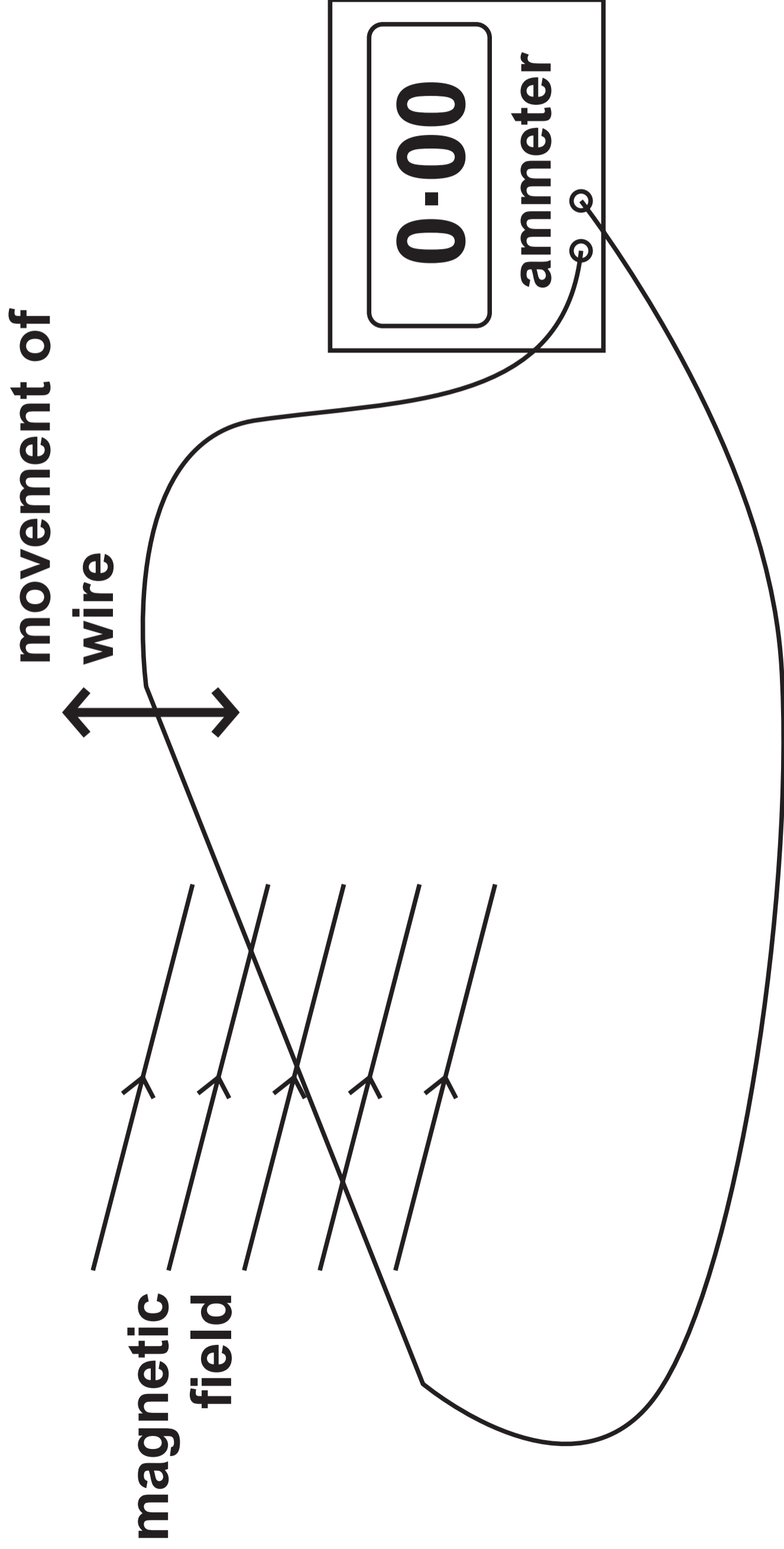
Question 7(b)(ii)



Question 7(b)(ii) (Spare copy)



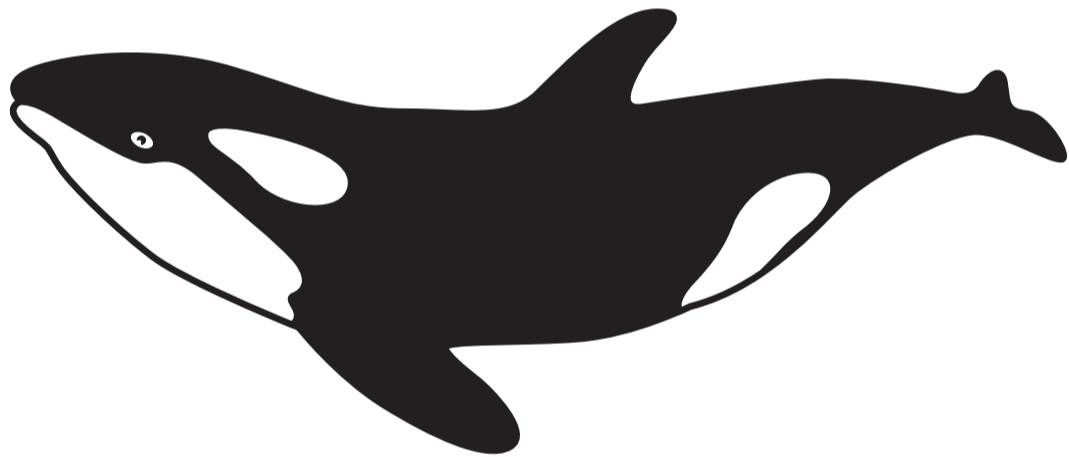
Question 8(b)



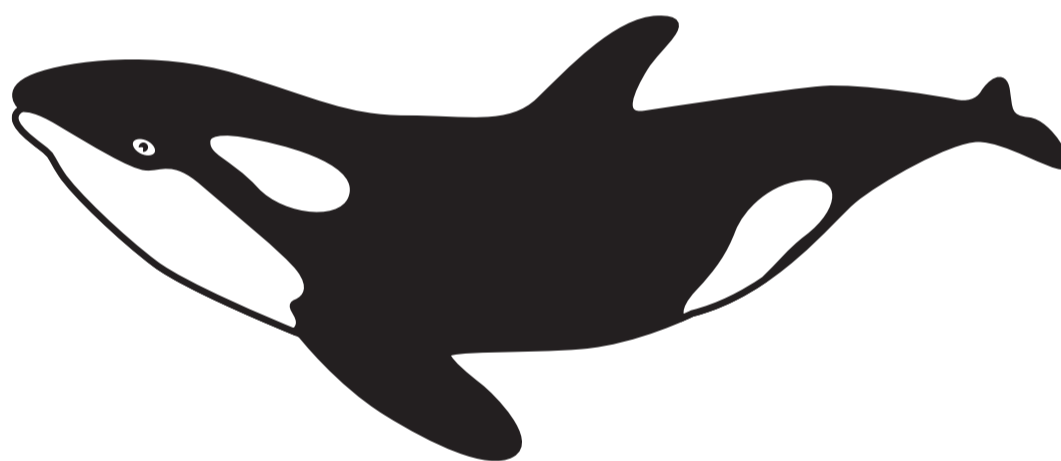
Question 9(a)



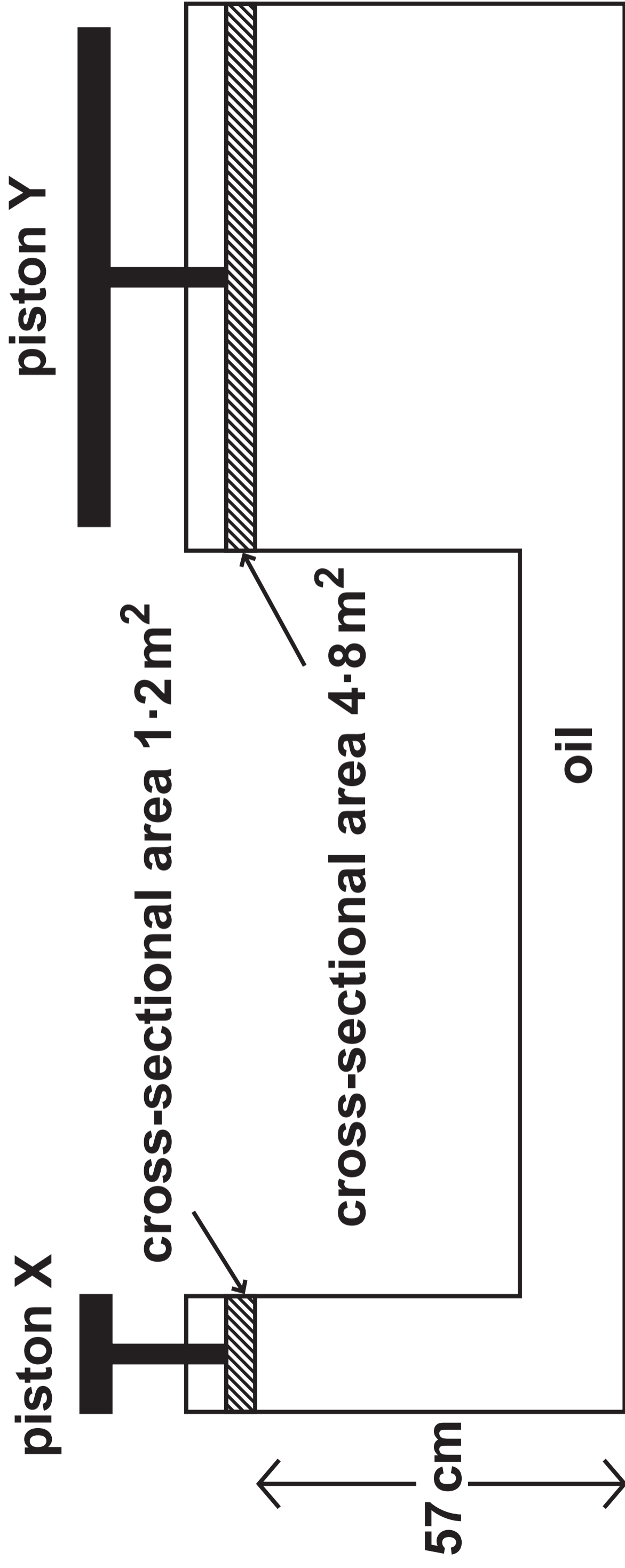
Question 9(b)



Question 9(b) (Spare copy)



Question 10



Question 10(c)

Energy store	Change
gravitational potential energy of piston X	
gravitational potential energy of piston Y	
chemical energy of piston Y	
kinetic energy of piston Y	

Question 10(c) (Spare copy)

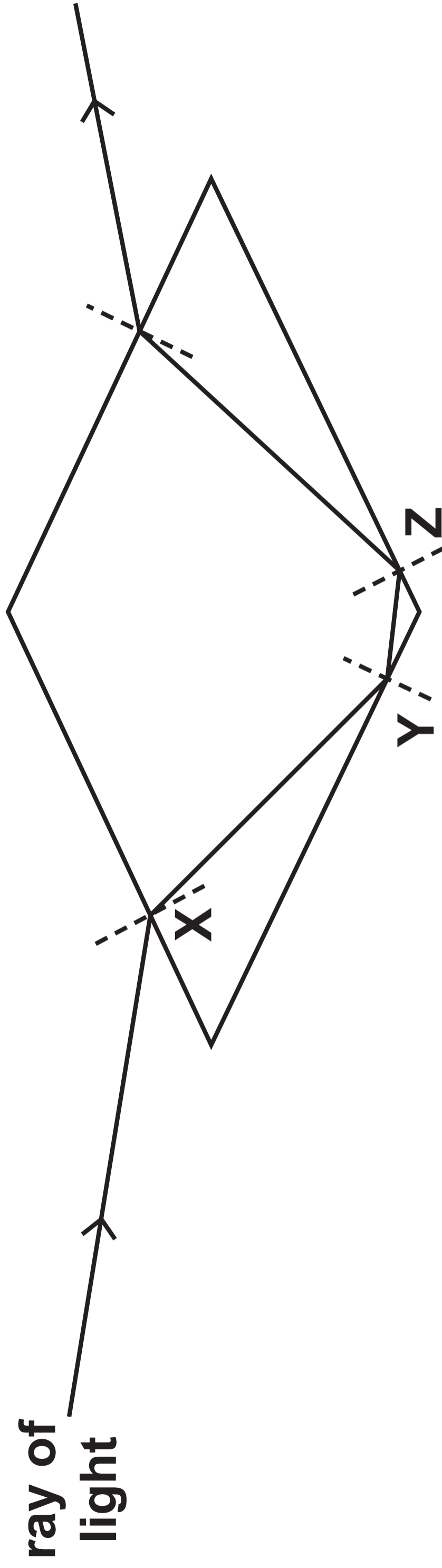
Energy store	Change
gravitational potential energy of piston X	
gravitational potential energy of piston Y	
chemical energy of piston Y	
kinetic energy of piston Y	

Question 11

30

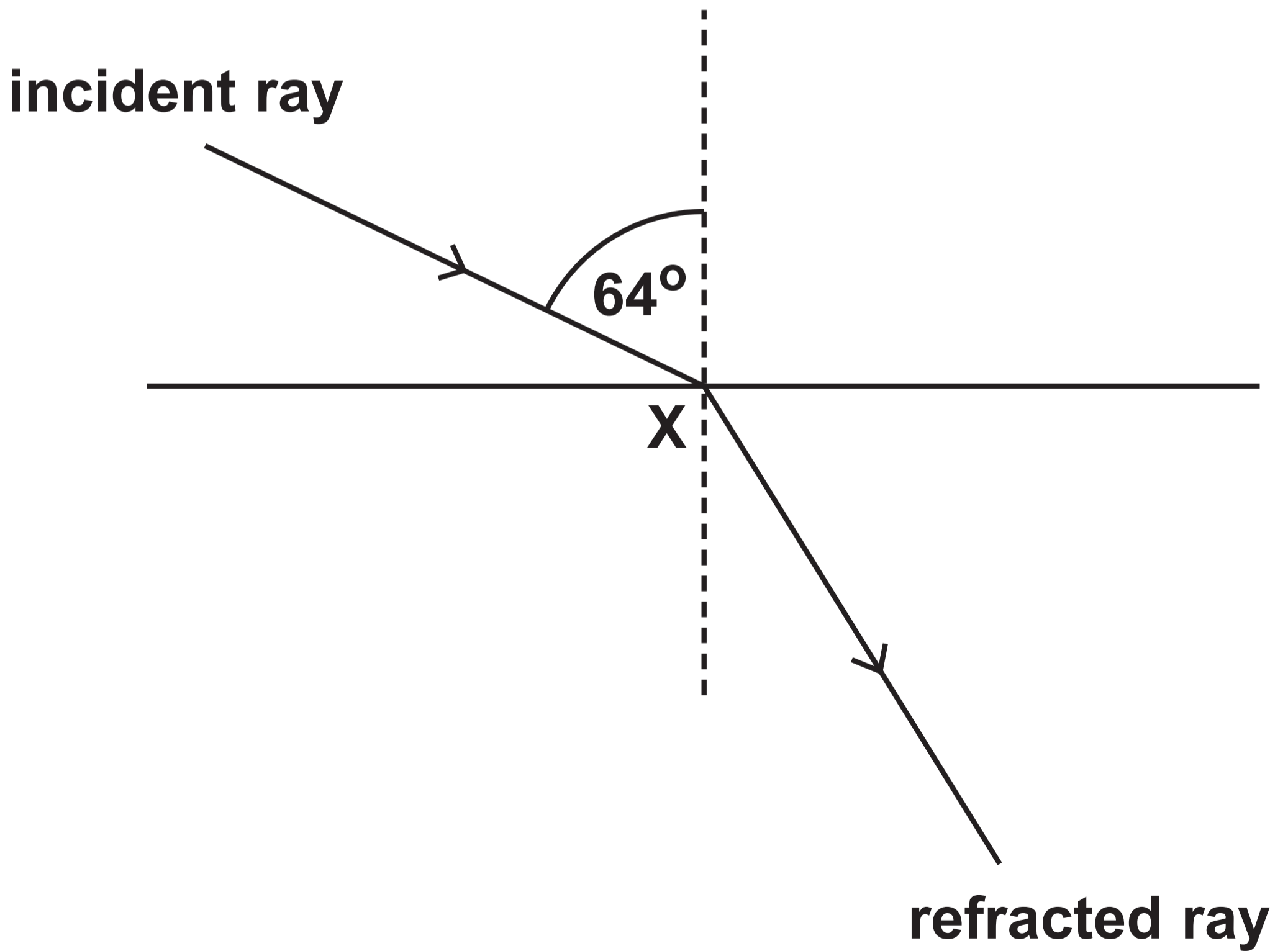
DIAGRAM 1

not to scale



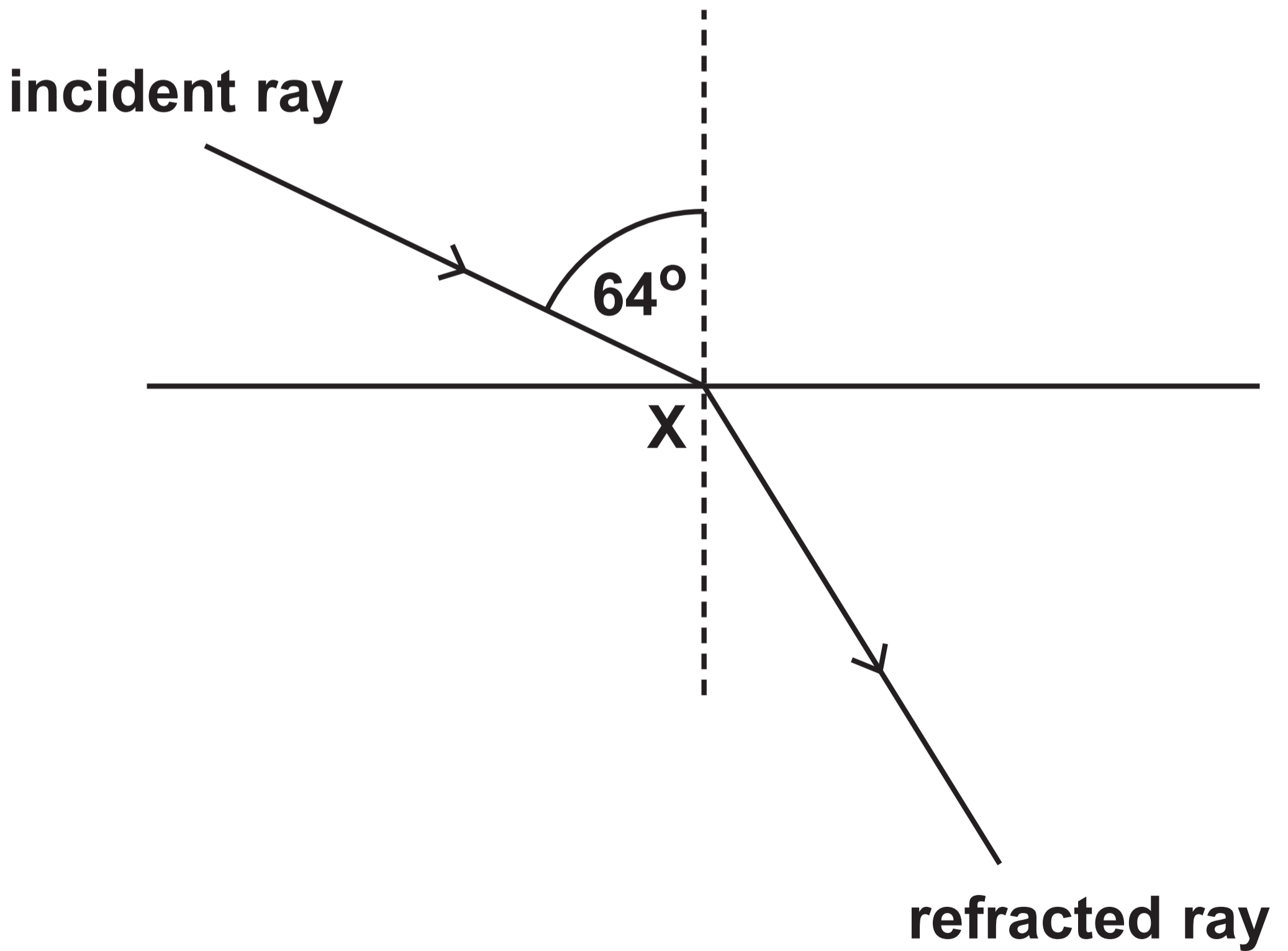
Question 11(a)(i)

DIAGRAM 2



Question 11(a)(i) (Spare copy)

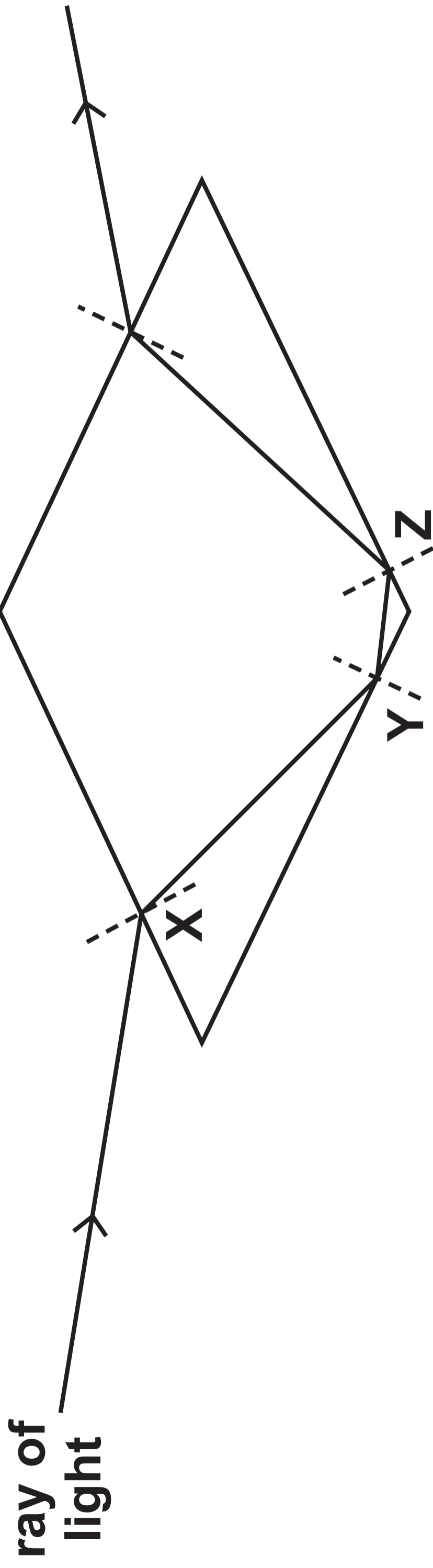
DIAGRAM 2



Question 11(b)

33

not to scale



Question 9(a)

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Question 9(b)

**(Source: © Eugenia Petrovskaya/
Shutterstock)**