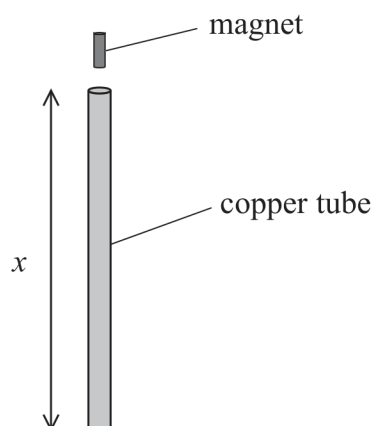


- 2 A student investigated Lenz's law using the apparatus shown.



The student dropped the magnet into the copper tube and measured the time t for the magnet to reach the bottom of the tube.

- (a) The student had a large number of copper tubes of different lengths x . He predicted that the magnet would fall with constant acceleration a inside the copper tubes.

Devise a plan, using a graphical method, to test this prediction.

(6)



(b) Explain a possible source of error in this investigation.

(2)

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(Total for Question 2 = 8 marks)