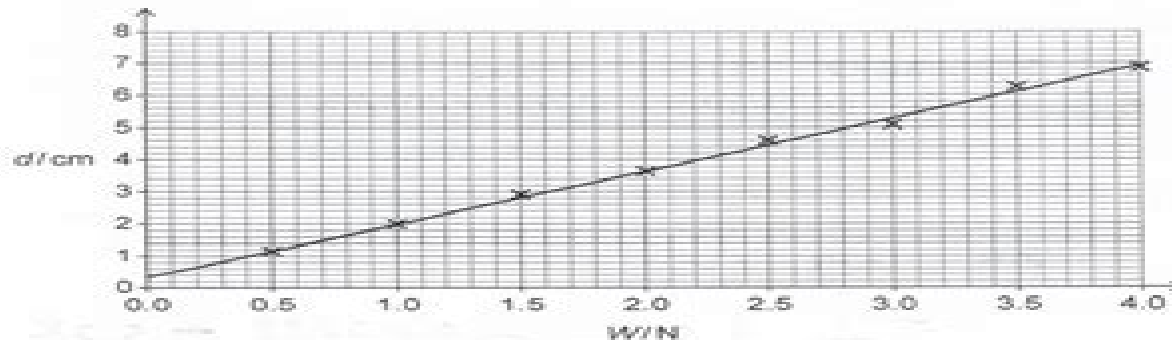


(Question 2 continued)

(b) The variation of  $d$  with  $W$  is shown.

Outline one experimental reason why the graph does not go through the origin.

[1]

The weight of the ruler also causes the ruler to bend down slightly.

(c) Theory predicts that

$$d \propto \frac{W^x L^y}{EI}$$

where  $E$  and  $I$  are constants. The fundamental units of  $I$  are  $\text{m}^4$  and those of  $E$  are  $\text{kg m}^{-1} \text{s}^{-2}$ .

Calculate  $x$  and  $y$ .

[2]

$$\begin{aligned}
 EI \cdot d &\propto W^x L^y \\
 [EI d] &= \text{kg m}^{-1} \text{s}^{-2} \cdot \text{m}^4 \cdot \text{m} \\
 &= \text{kg m}^4 \text{s}^{-2} = \underbrace{\text{kg m s}^{-2}}_1 \cdot \underbrace{\text{m}^3}_3 = \text{N}^1 \cdot \text{m}^3 = [W]^x \cdot [L]^y = \text{N}^x \cdot \text{m}^y \\
 &\quad \text{compare the powers} \quad \therefore x=1, y=3
 \end{aligned}$$

(This question continues on the following page)



# Physicalsciencegr102common Papers Exams

**Michal Rosen-Zvi**



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