



You are provided with a triangular prism, a drawing board, drawing sheets, four optical pins, drawing pins and other necessary materials. Use the diagram above as a guide to carry out the following instructions.

- (i) Draw the outline ABC of the prism provided on a drawing sheet.
- (ii) Remove the prism. Measure and record the refracting angle, A , of the prism.
- (iii) Draw a line DF to make an angle $\beta = 20^\circ$ with BA .
- (iv) Fix two pins at P_1 and P_2 on DF . Replace the prism on its outline.
- (v) Look through the side AC of the prism and fix two other pins at P_3 and P_4 such that they appear to be in a straight line with the images of the pins at P_1 and P_2 .
- (vi) Remove the prism and the pins.
- (vii) Join P_3 and P_4 with a straight line from G and extend it to the point Q on the side AC of the prism.
- (viii) Draw a straight line through P_3 and P_4 to meet AC at Q .
- (ix) Measure the angle γ .
- (x) Evaluate $\theta = (90 - \beta)$ and $\Phi = (90 - \gamma)$.
- (xi) Repeat the procedure for four other values of $\beta = 30^\circ, 35^\circ, 40^\circ$, and 50° . In each case, record γ and evaluate θ and Φ .
- (xii) Tabulate the results.
- (xiii) Plot a graph with θ on the vertical axis and Φ on the horizontal axis, starting both axes from the origin $(0,0)$. Draw a smooth curve through the points.
- (xiv) Draw a straight line from the origin to make angle 45° with the horizontal axis and to intersect the curve.
- (xv) At the point of intersection, read the values of θ and Φ and record them as θ_m and Φ_m respectively.
- (xvi) Evaluate $\mu = \frac{\sin \theta_m}{\sin \left(\frac{A}{2} \right)}$
- (xvii) State two precautions taken to ensure accurate results.

[21 marks]



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