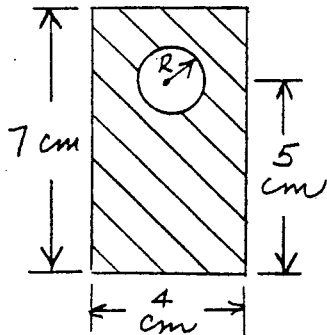


Centroid and Moment of Inertia Special Problems

Please find the moment of inertia about a horizontal axis through the centroid of the cross sections shown.

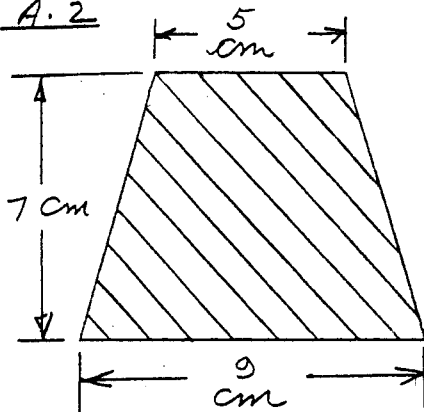
$$R = 1 \text{ cm}$$

A.1



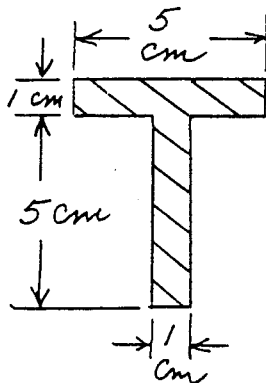
HINT: TREAT HOLE AS
NEGATIVE AREA AND
INERTIA.

A.2



HINT: TREAT AREA AS
A RECTANGLE AND TWO
TRIANGLES.

A.3



HINT: TREAT AREA
AS 2 RECTANGLES