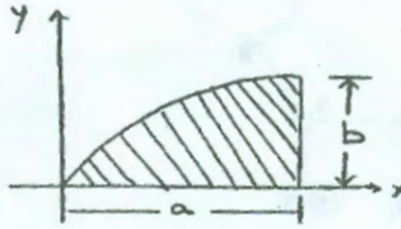
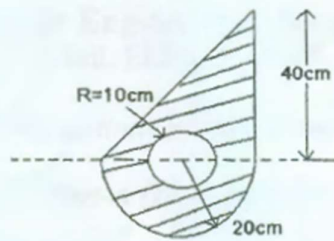


Unit 5- Unit Wise Test

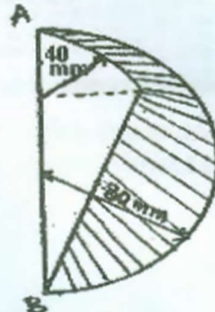
- a) Locate the centroid of given parabola $y^2 = kx$ bounded by x- axis the line $x = a$.



- Find the moment of inertia of the shaded area about the horizontal centroidal axis as shown in fig



- c) Determine the angle that the line AB makes with the vertical when the shaded stem is suspended at A as shown in fig.



- a) Calculate the Y-coordinate of centroid of the shaded area shown in Fig.6.
b) Find moment of inertia of shaded area shown in Fig.7 about X-axis.

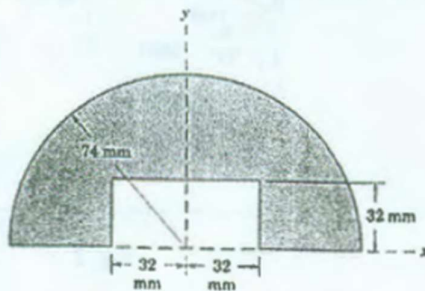


Fig. 6

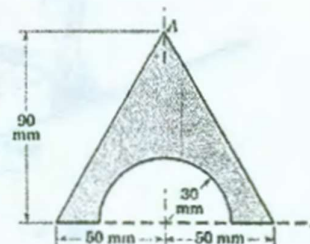


Fig. 7