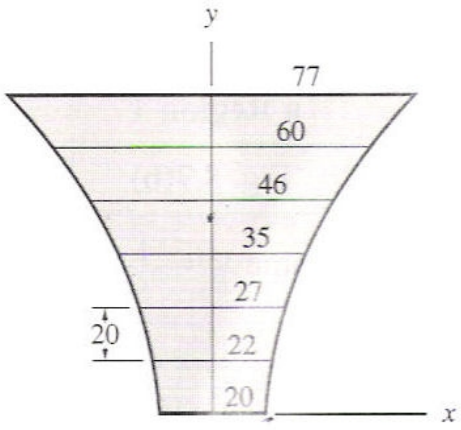
Computer Problem #2

Problem 8.35: Use numerical integration to locate the centroid of the symmetric plane region.



Dimensions in mm

Fig. P8.35

Problem 8.36: Use numerical integration to locate the centroidal coordinates of the plane region.

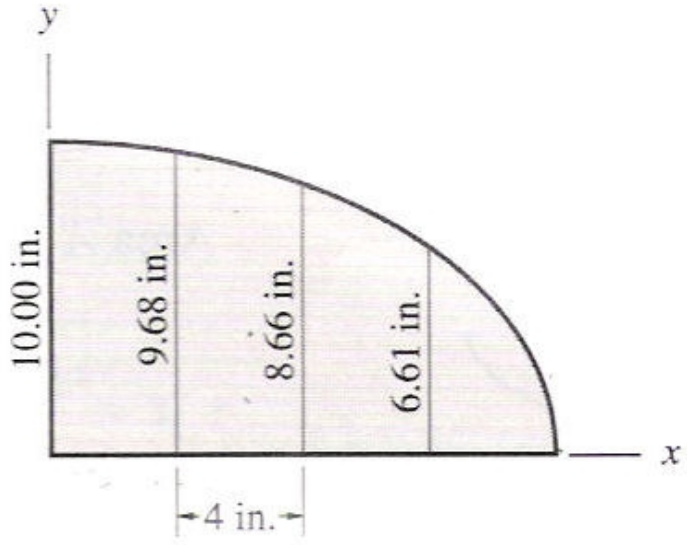


Fig. P8.36

Problem A: Use numerical integration to locate the centroidal coordinates of the plane region below the line subscribed by $y = x + x^3$. $0 \leq x \leq 5$.

Problem B: Use numerical integration to locate the centroidal coordinates of the plane region above the line subscribed by $y = x + x^3$. $0 \leq x \leq 5$.

Problem 8.70: Use numerical integration to locate the centroid of the volume generated by revolving the area about the x axis.

Problem 8.71: Use numerical integration to locate the centroid of the volume generated by revolving the area about the y axis.

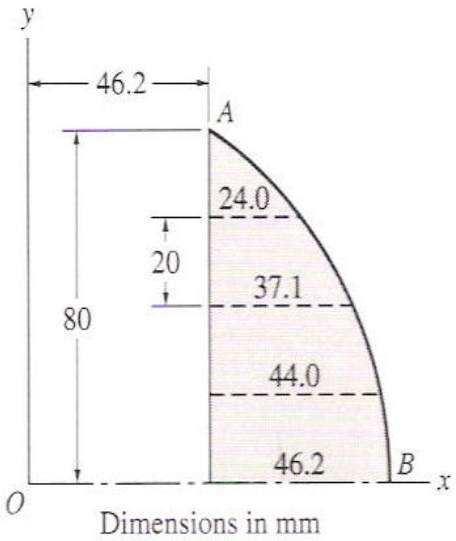


Fig. P8.70, P8.71