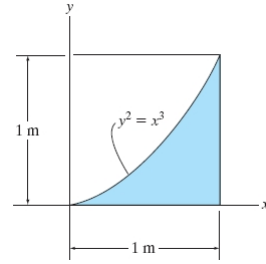


Exercise

•9-9. Determine the area and the centroid ( $\bar{x}$ ,  $\bar{y}$ ) of the area.

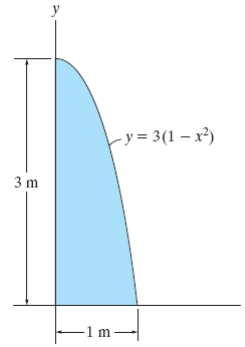
$\bar{x} = 0.714 \text{ m}$        $\bar{y} = 0.3125 \text{ m}$     **Ans.**



Exercise

\*9-24. Locate the centroid ( $\bar{x}$ ,  $\bar{y}$ ) of the area.

$\bar{x} = 0.375 \text{ m}$        $\bar{y} = 1.2 \text{ m}$       **Ans**



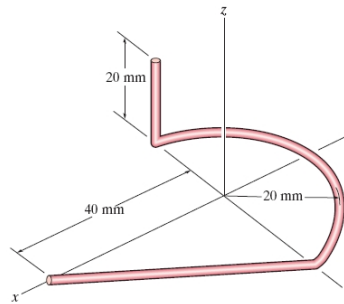
Exercise

9-47. Locate the centroid ( $\bar{x}$ ,  $\bar{y}$ ,  $\bar{z}$ ) of the wire which is bent in the shape shown.

$\bar{x} = 0.740 \text{ mm}$       **Ans**

$\bar{y} = 0.370 \text{ mm}$       **Ans**

$\bar{z} = 1.57 \text{ mm}$       **Ans**



Exercise

9-55. Locate the distance  $\bar{y}$  to the centroid of the member's cross-sectional area.

257 mm      **Ans**

