

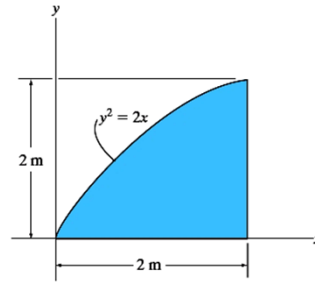
Exercise

•10-5. Determine the moment of inertia of the area about the x axis.

2.13 m^4

•10-6. Determine the moment of inertia of the area about the y axis.

4.57 m^4

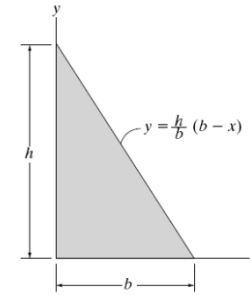


*10-16. Determine the moment of inertia of the triangular area about the x axis.

$\frac{1}{12}bh^3$

•10-17. Determine the moment of inertia of the triangular area about the y axis.

$\frac{1}{12}hb^3$

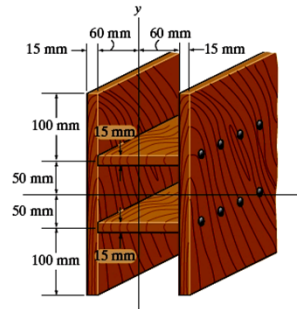


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Exercise

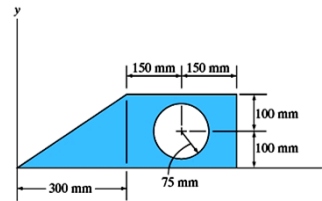
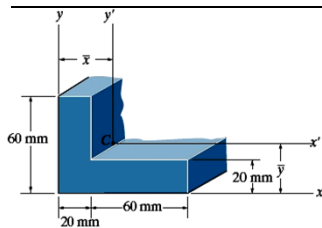
10-30. Determine the moment of inertia of the beam's cross-sectional area about the x axis.

$76.6 (10)^6 \text{ mm}^4$



•10-33. Determine the moment of inertia of the composite area about the y axis.

$10.3 (10)^9 \text{ mm}^4$



*10-44. Locate the centroid \bar{x} of the cross-sectional area for the angle. Then find the moment of inertia $I_{y'}$ about the y' centroidal axis.

$136 (10)^4 \text{ mm}^4$

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