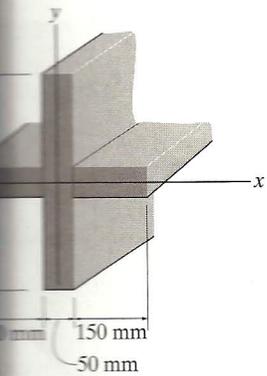


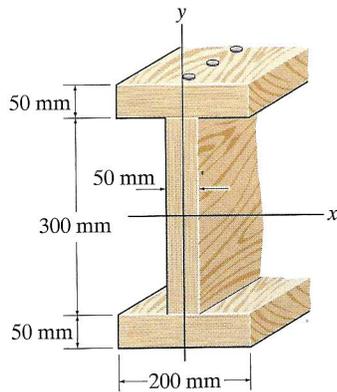
**MENTAL PROBLEMS**

Determine the moment of inertia of the beam's cross-sectional area about the centroidal  $x$  and  $y$  axes.



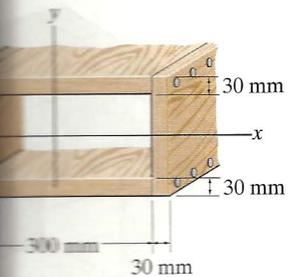
**F10-5**

**F10-7.** Determine the moment of inertia of the cross-sectional area of the channel with respect to the  $y$  axis.



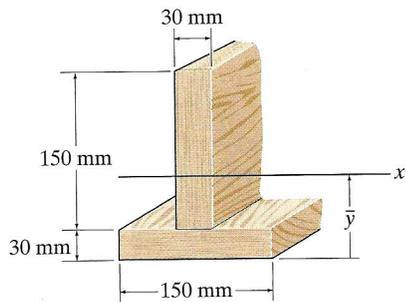
**F10-7**

Determine the moment of inertia of the beam's cross-sectional area about the centroidal  $x$  and  $y$  axes.



**F10-6**

**F10-8.** Determine the moment of inertia of the cross-sectional area of the T-beam with respect to the  $x'$  axis passing through the centroid of the cross section.



**F10-8**

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