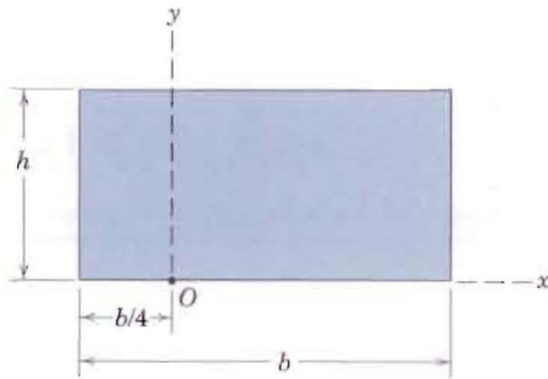


作業 11

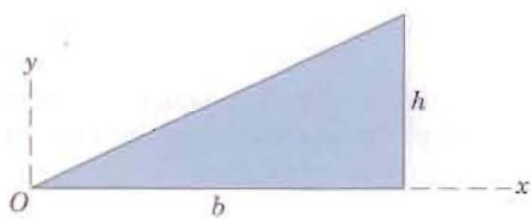
A/2

Determine the moments of inertia of the rectangular area about the x - and y -axes and find the polar moment of inertia about point O .



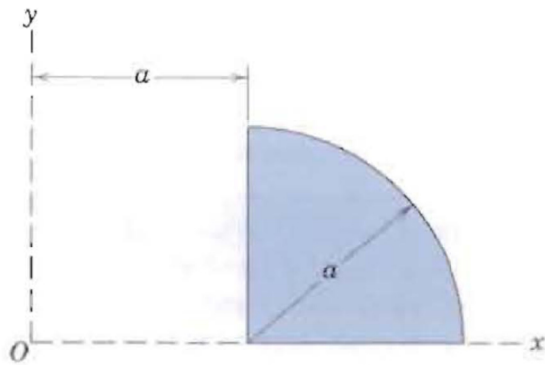
A/5

Determine by direct integration the moment of inertia of the triangular area about the y -axis.



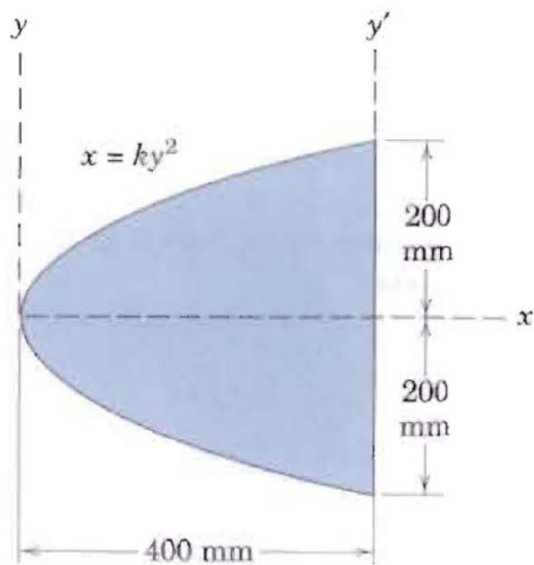
A/14

Determine the moments of inertia of the quarter-circular area about the x - and y -axes, and find the polar radius of gyration about point O .



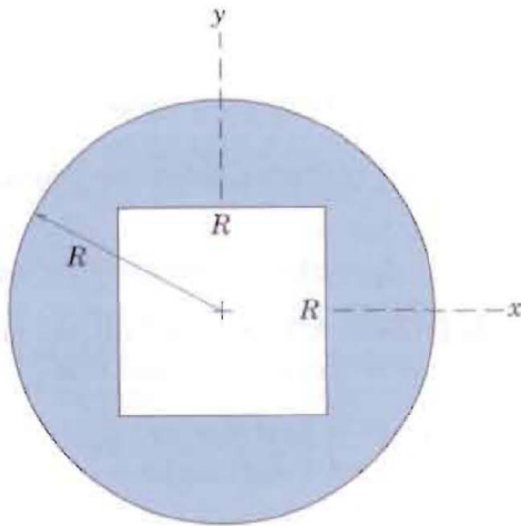
A/23

Determine the moments of inertia of the shaded area about the y - and y' -axes.



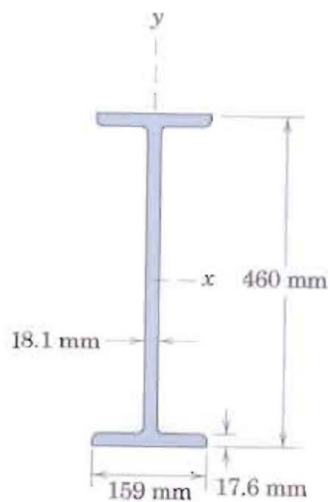
A/37

Determine the polar moment of inertia of the circular area without and with the central square hole.



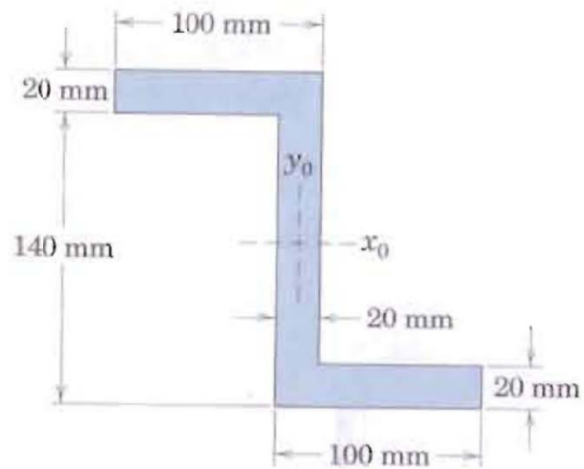
A/39

The cross-sectional area of a wide-flange I-beam has the dimensions shown. Obtain a close approximation to the handbook value of $\bar{I}_x = 385(10^6) \text{ mm}^4$ by treating the section as being composed of three rectangles.



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Determine the moments of inertia of the Z-section about its centroidal x_0 - and y_0 -axes.



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Calculate the polar radius of gyration of the shaded area about its centroid C .

