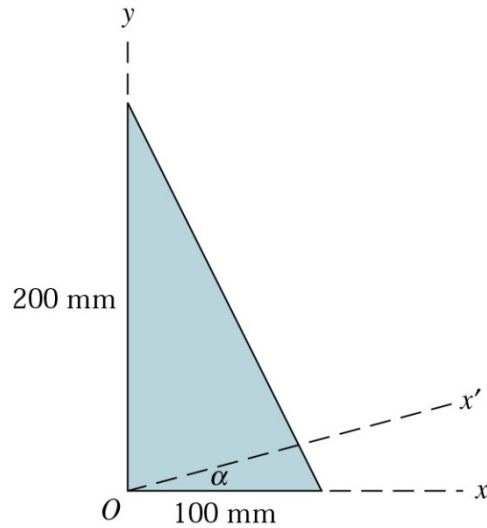
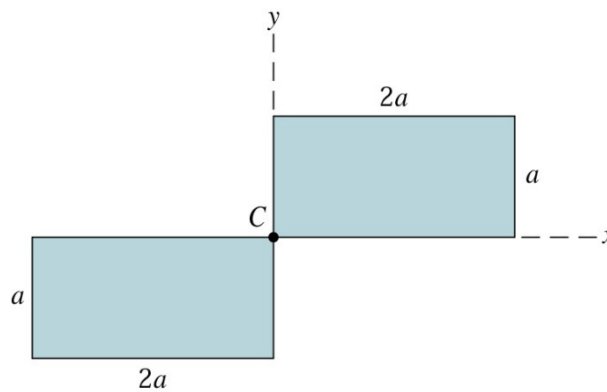


## Lecture7: Exercises

- (1) Determine the maximum moment of inertia about an axis through  $O$  and the angle  $\alpha$  to this axis for the triangular area shown. Also construct the Mohr circle of inertia.



- (2) Determine the maximum and minimum moments of inertia for the shaded area about axes through point  $C$ .



- (3) Determine the moments and products of inertia of the shaded area with respect to the  $x'$ - $y'$  axes.

