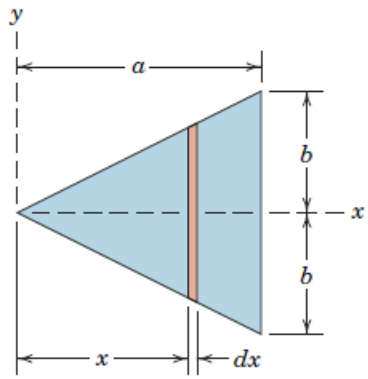
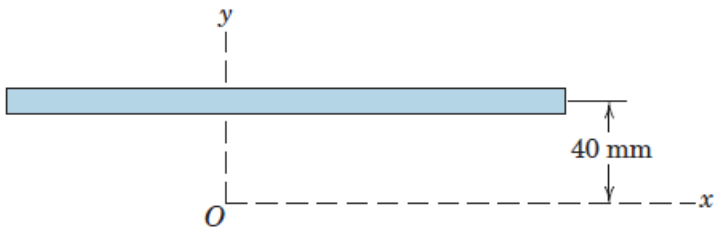
Session: 7

1. Use the differential element shown to determine the moment of inertia of the triangular area about the x-axis and about the y-axis.



2. If the moment of inertia of the thin strip of area about the x-axis is 2.56 $(10)^6 mm^4$, determine the area A of the strip to within a close approximation.



3. The moments of inertia of the area A about the parallel p and p' -axes differ by $15(10)^6 mm^4$. Compute the area A, which has its centroid at C.