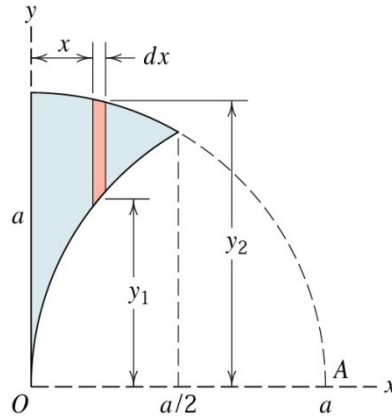


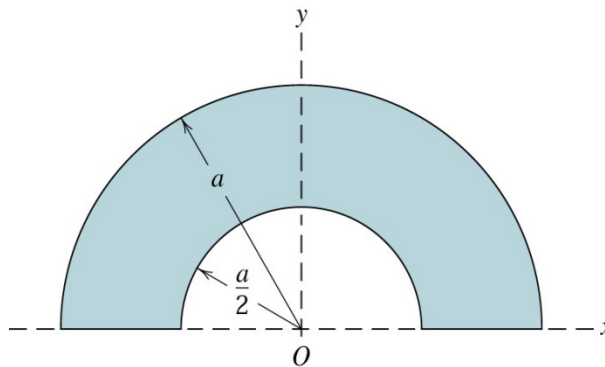
Lecture 6: Exercises

(1) Determine the moment of inertia about the x -axis of the shaded area. Note that the circular arcs are parts of circles of radius a whose centres are at points O and A .



(2.1) Determine moments of inertia about x -, y -, and z -axes, ie. I_x , I_y and I_z of the figure below.

(2.2) Determine radii of gyration about x -, y -, and z -axes, ie. k_x , k_y and k_z of the figure below.



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

