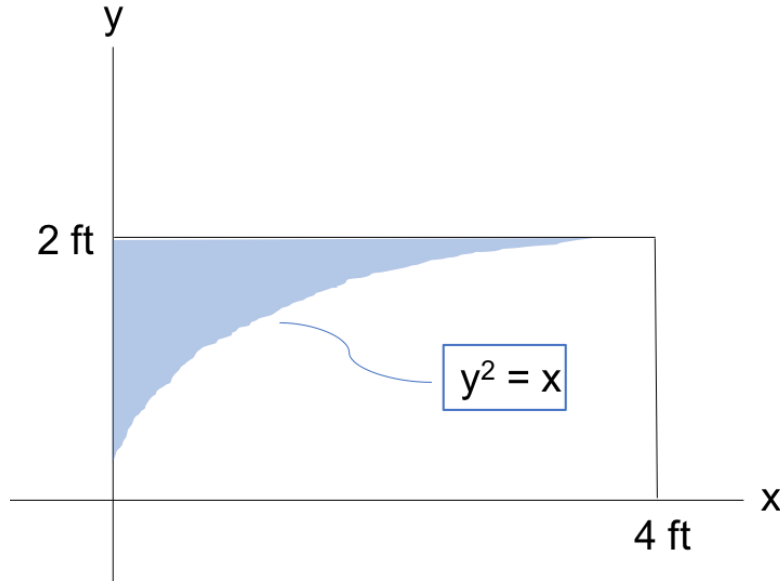


1. Refer to the figure below.
 - a. Determine the moment of inertia for the shaded area about the x-axis
 - b. Determine the moment of inertia for the shaded area about the y-axis



2. Refer to the figures below.
 - a. For figure (i), determine the moment of inertia with respect to the x' axis
 - b. For figure (i), determine the moment of inertia with respect to the y' axis
 - c. For figure (ii), determine the moment of inertia with respect to the x axis
 - d. For figure (ii), determine the moment of inertia with respect to the y axis

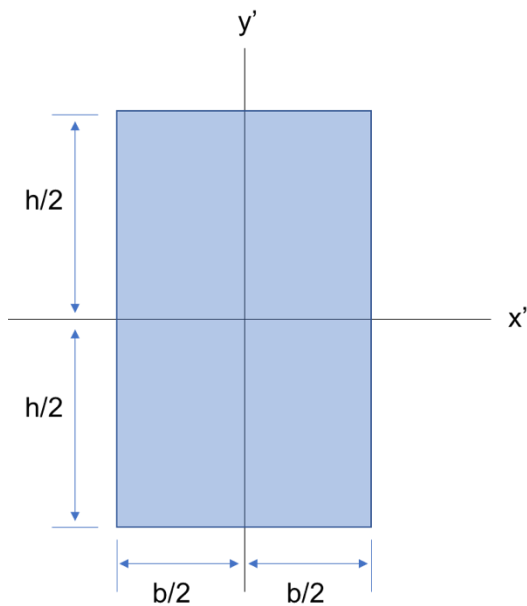


Figure (i)

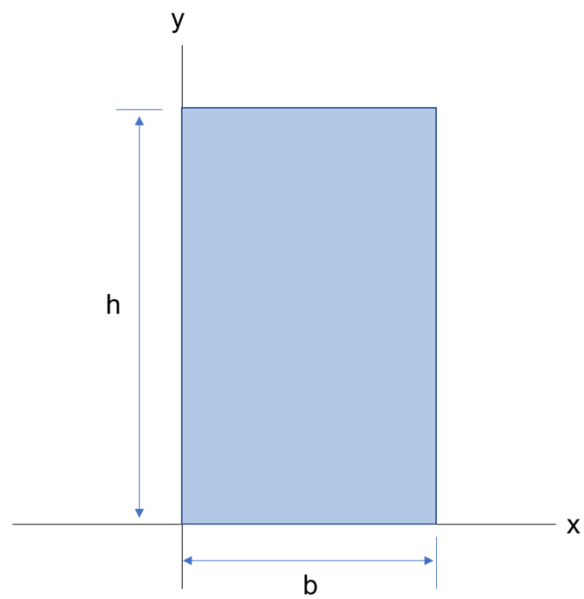
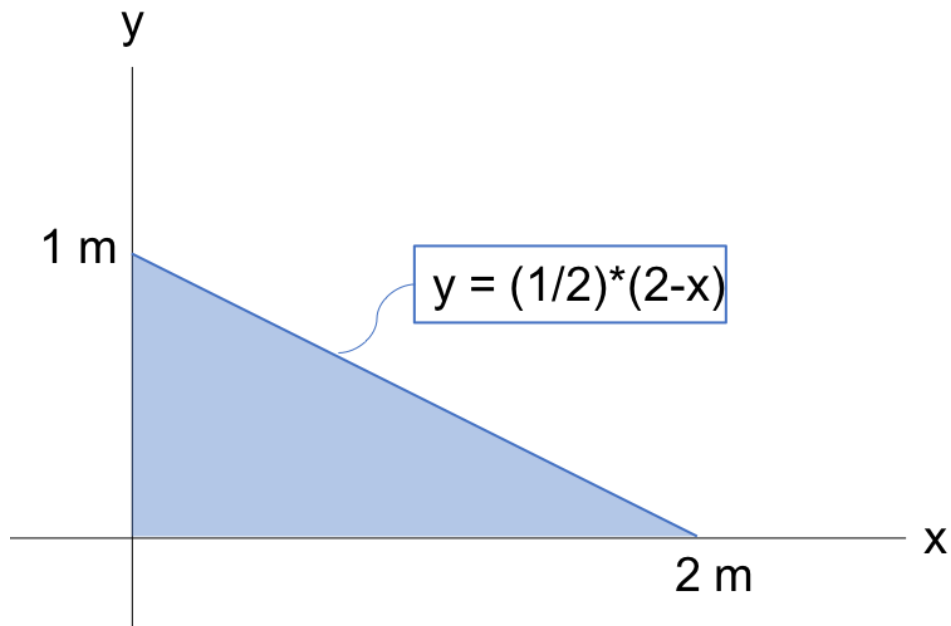


Figure (ii)

3. Refer to the figure below.
- Determine the moment of inertia for the shaded area about the x-axis
 - Determine the moment of inertia for the shaded area about the y-axis



4. Refer to the figure below.
- Determine the moment of inertia for the shaded area about the x-axis
 - Determine the moment of inertia for the shaded area about the y-axis

