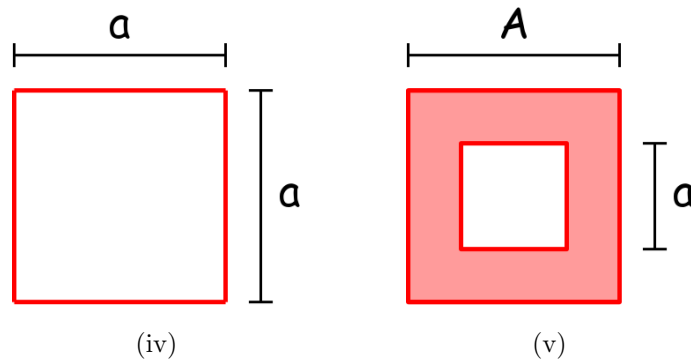
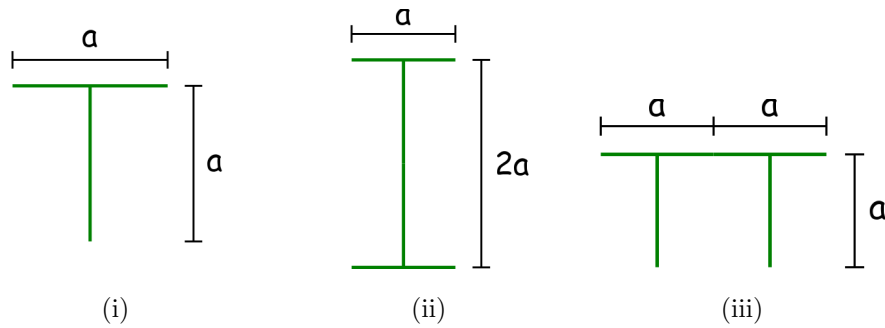


## EXERCISES ON INERTIA - 2

### SECTIONS OF BEAMS

You can think about the following pictures as (simplified) sections of beams.

**Problem 1.** Find the center of mass and the central tensor of inertia  $\mathbf{I}_C$  of the following sections of beams. For each section, suppose the (linear) density to be constantly equal to  $\rho$ .



### PRINCIPAL AXES OF INERTIA

**Problem 2.** Find the principal central axes of inertia of the following configurations of 4 points:

