

HOMEWORK ON INERTIA: EXAMPLES WITH MATERIAL SYMMETRIES

For each of the following pictures, find

- (1) the center of mass C ,
- (2) the principal directions of inertia,
- (3) the central tensor of inertia \mathbf{I}_C ,
- (4) the tensors of inertia $\mathbf{I}_O, \mathbf{I}_A, \mathbf{I}_D$ (when the points O, A and D are indicated).

The total mass of each object is m , and the mass is always uniformly distributed.

