Civil Engineering Department

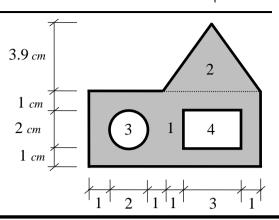
Academic Year: 2015-2016 Course Name: Theory of Structures (2) Semester: Second

> الكود: الاسم:

## Question (1): (10 Marks)

For the shown cross-section, determine the following:

- (a) The location of the centroid.
- (b) The moments of inertia about the centroidal axes.
- (c) The direction of the principal axes.
- (d) The principal moments of inertia.



## **Solution:**