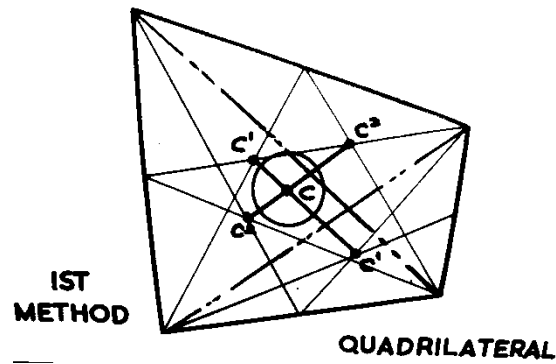


Strand	TD11.1. GEOMETRY
Sub - Strand	TD11.1.2 CENTROIDS
Content Learning Outcome	TD11.1.2.1 Construct the centroid of simple geometrical shapes and objects with an appreciation of the significance of centroid.

WORKED EXAMPLES

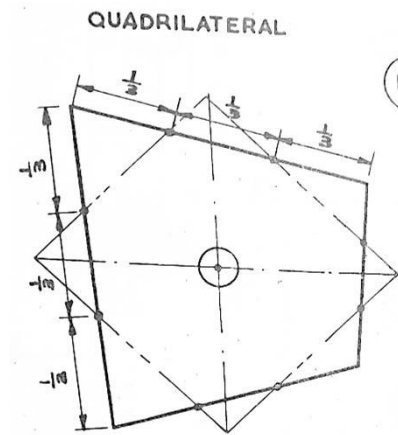
Quadrilaterals – First Method

1. Divide into two triangles by drawing one diagonal.
2. Draw the medians in the two triangles formed to find C1 and C1; join these.
3. Draw the second diagonal, and by medians find C2 and C2; join these.
4. The intersections gives C, the centroid.



Quadrilaterals – Second Method

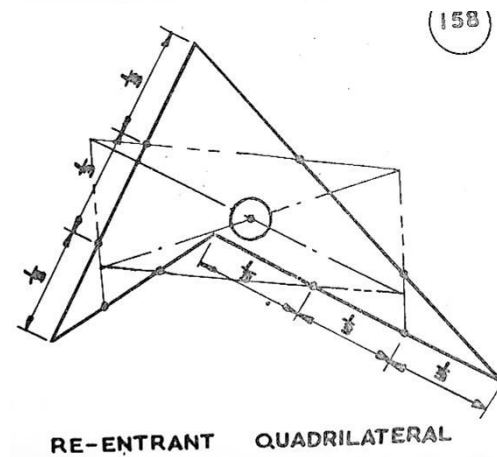
1. Divide the sides of the quadrilateral into three equal parts.
2. Join the first two points from every corner to form a second quadrilateral.
3. The diagonals of this quadrilateral intersect in the centroid point.



2ND METHOD

Quadrilaterals – Re-Entrant Method

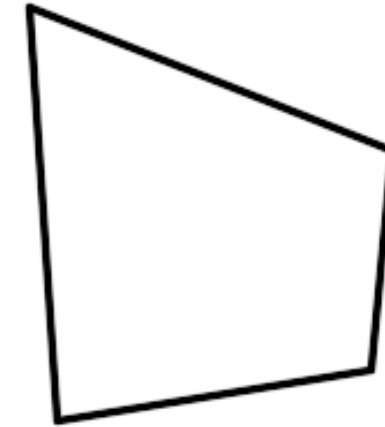
The centroid of a re-entrant quadrilateral can be found by the same method of joining first two points from every corner to form a rectangle the diagonals of which intersection is the centroid.



QUESTION 1

Given: A Quadrilateral

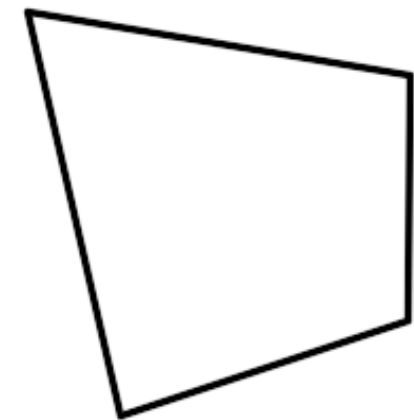
Required: Locate the centroid using first method.



QUESTION 2

Given: A Quadrilateral

Required: Locate the centroid using second method.



QUESTION 3

Given: A Quadrilateral

Required: Locate the centroid using re-entrant method.

