## SHEET 1

#### PENANG SANGAM HIGH SCHOOL

#### P. O. BOX 44, RAKIRAKI

## **LESSON NOTES - 11**

#### SUBJECT: TECHNICAL DRAWING

**QUESTION 2** 

Given:

**Required:** 

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.

## **CENTROID**

By the end of this topic, students will:

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a) Define centroid and state its significance.

b) Construct centroid of simple geometrical shapes.

c) Apply the use of centroid in original articles.

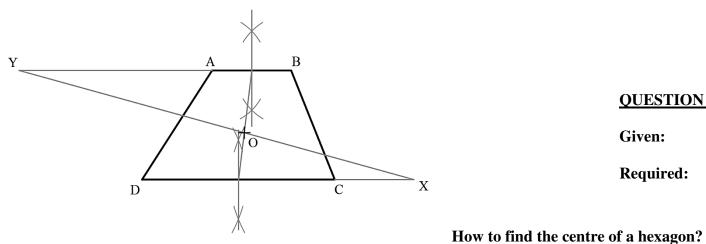
#### WORKED EXAMPLES

## How to find the centre of a trapezium?

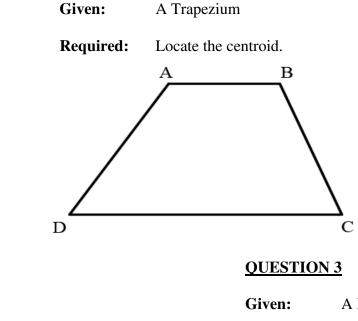
1. Bisect the two parallel sides (AB & CD) and join the midpoints.

2. Extend the parallel sides. Add the length of the opposite side as shown, (AB = XC & CD = AY).

3. Join X and Y which will intersect the line joining the midpoints for the centroid, O.

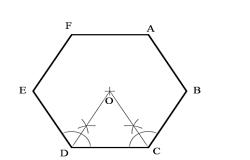


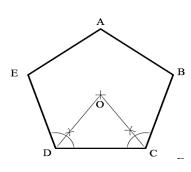
# **QUESTION 1**

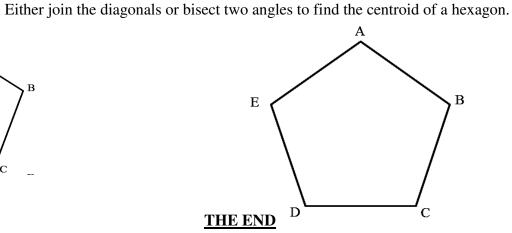


**Required:** 

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A Pentagon

Locate the centroid.

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## YEAR/ LEVEL: <u>11 C/D</u>

A Hexagon

