

WEEK: 4

DATE:

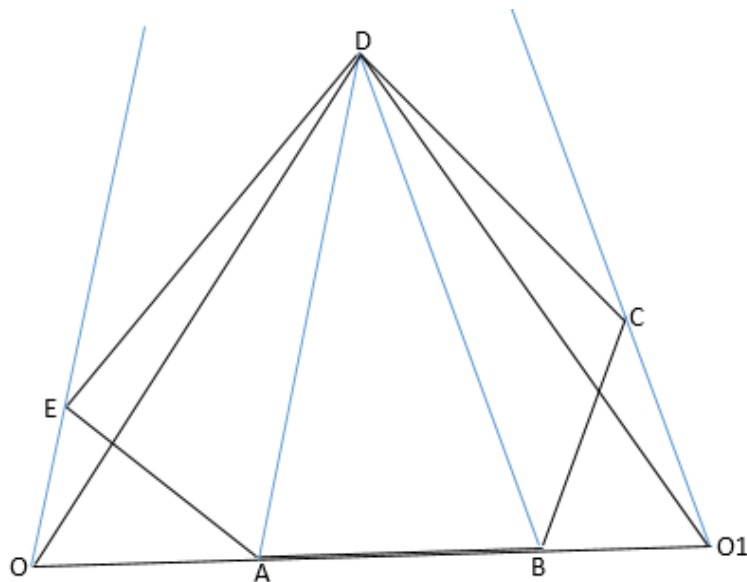
CLASS: SS1

TOPIC: EQUAL AREAS OF SIMILAR FIGURES

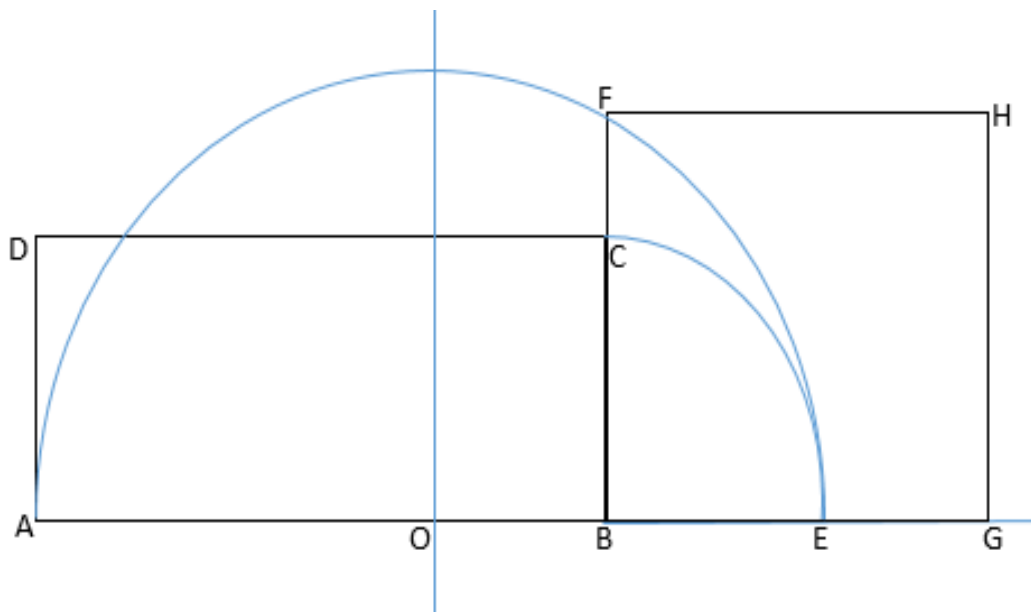
EQUAL AREAS OF SIMILAR FIGURES

Certain times, in geometry, engineering, survey, architecture etc. there comes the need to ascertain the equality or otherwise of dissimilar shapes of objects. This principle of similar areas helps to convert plain shapes from one form to another without altering their overall area. This can be very helpful even in real life.

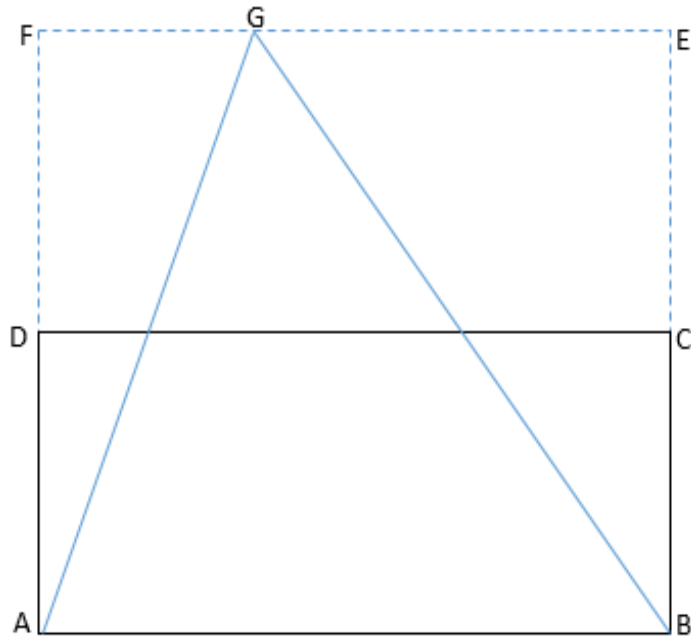
To construct an irregular pentagon ABCDE equal in area to a triangle with the following dimensions; AB= 50mm, BC= 70mm, CD= 75mm, EA= 40mm, DE= 90mm, angle at A = 150° and angle at B= 120°



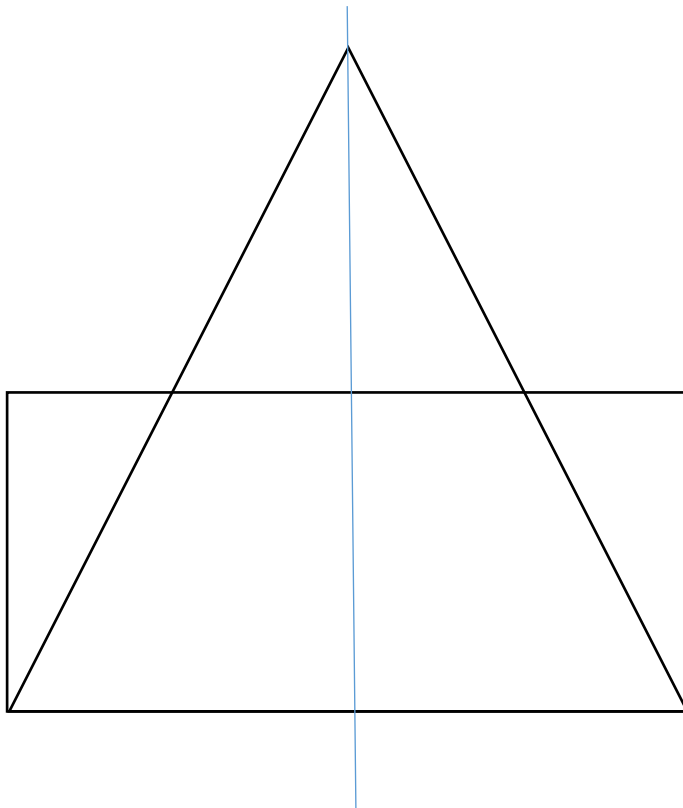
To convert a rectangle to a square



To convert a rectangle to an equal area triangle



To convert a triangle to an equal area rectangle



Assignment:

1. What is a tangent?
2. Draw a circle of radius 25mm and construct a tangent on it.