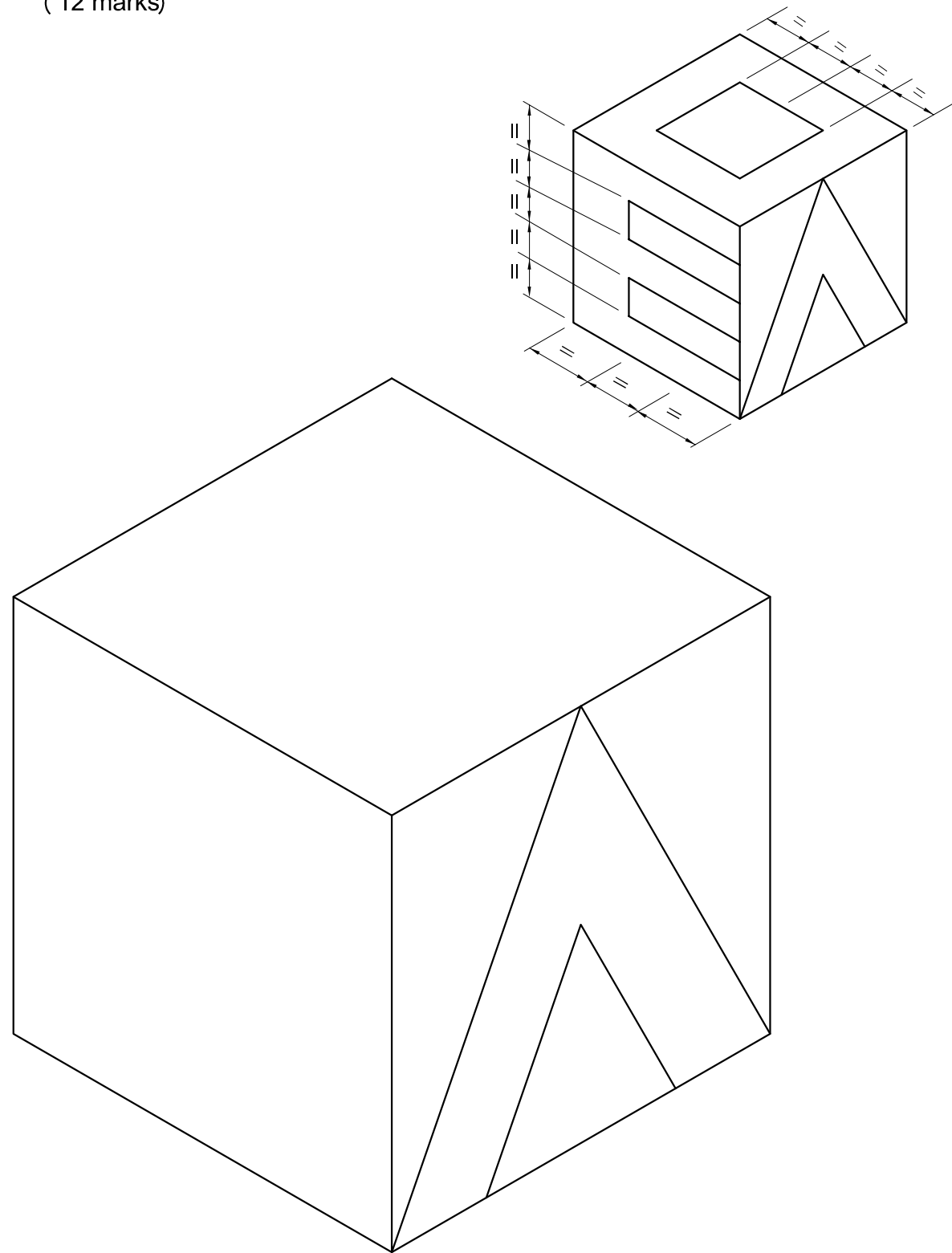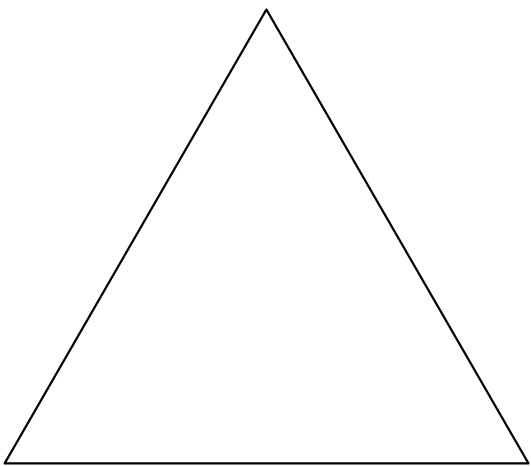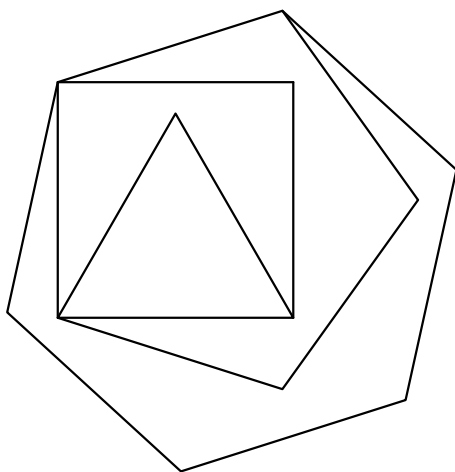## QUESTION No. 1

A computer games company called 'Electronic Apps' is in the process of designing a new logo which consists of the letters 'E' 'O' and 'A' on an isometric cube. Complete their logo by **dividing** the face for the letter 'E' into five and three equal parts and **bisecting** the face for the letter 'O' into four equal parts on each side.   (12 marks)
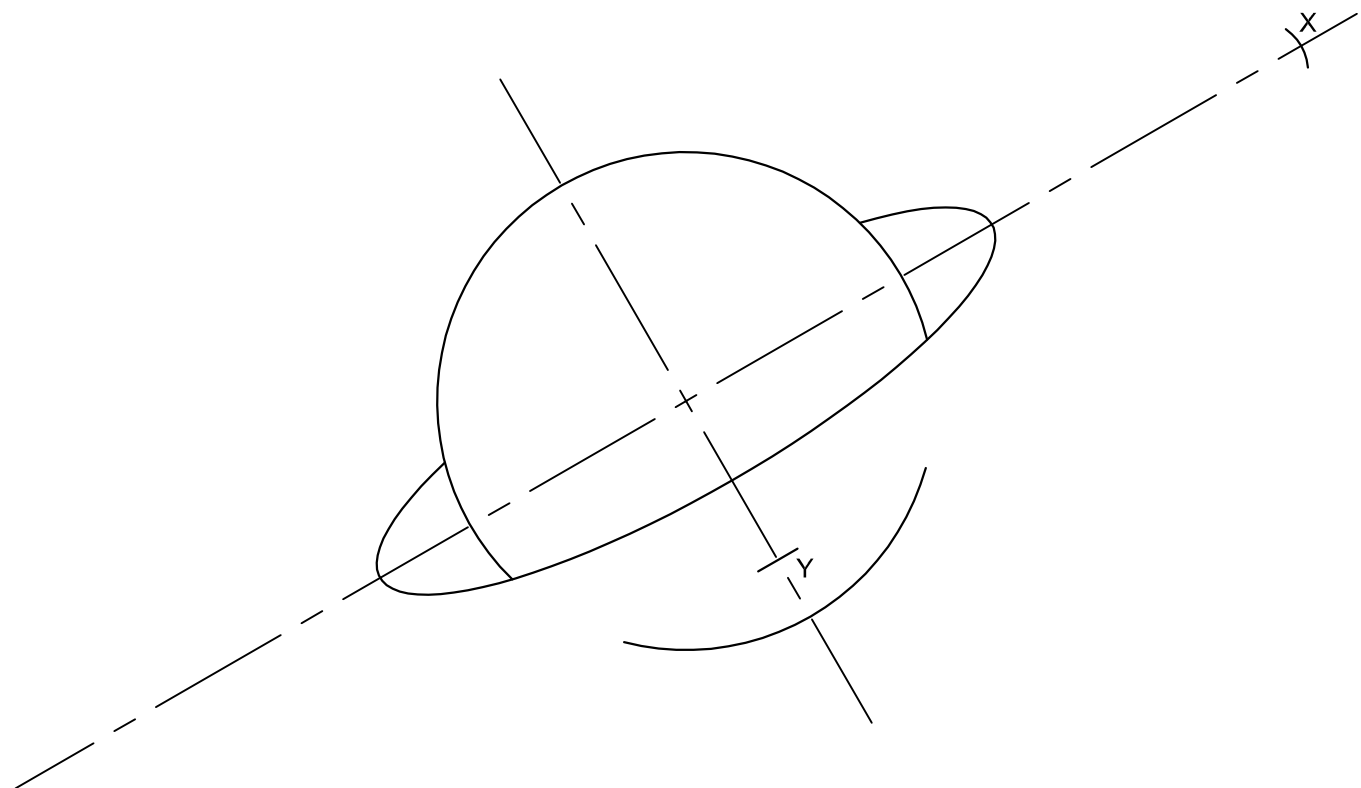

QUESTION No. 2

The image shown is used as a desktop shortcut to start a game called 'Star Alliance'. It is composed of an equilateral triangle, a square, a regular pentagon and a regular hexagon. Complete the shortcut by constructing the square and the missing polygons.   (18 marks)
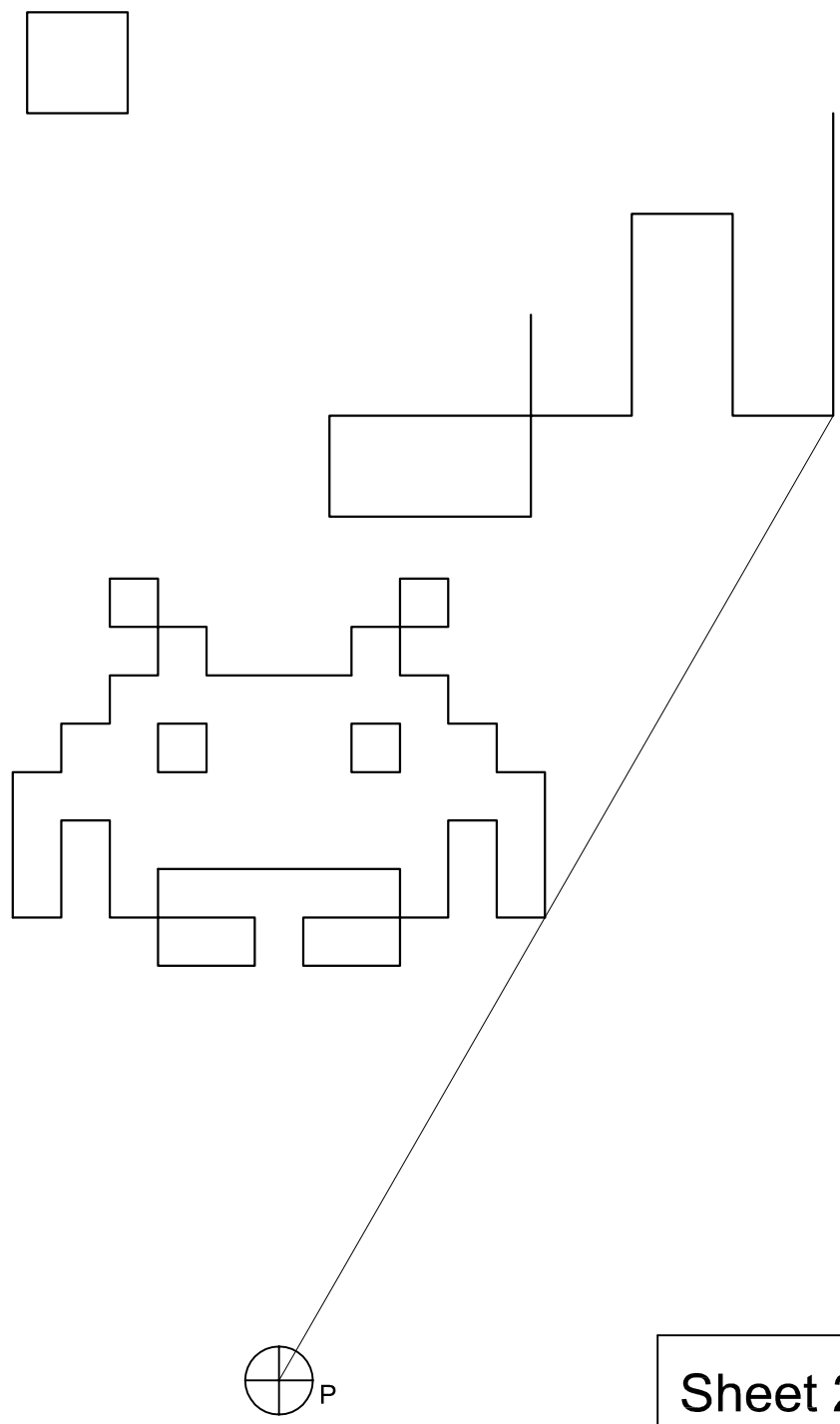
QUESTION No. 3

One of the backgrounds used in a computer game called 'Space Attack' involves the planet Saturn. As the game graphic designer, complete the drawing of Saturn by constructing the ellipse on the given center lines. The major and minor axis have been marked off for you at points X and Y respectively. (17 marks)
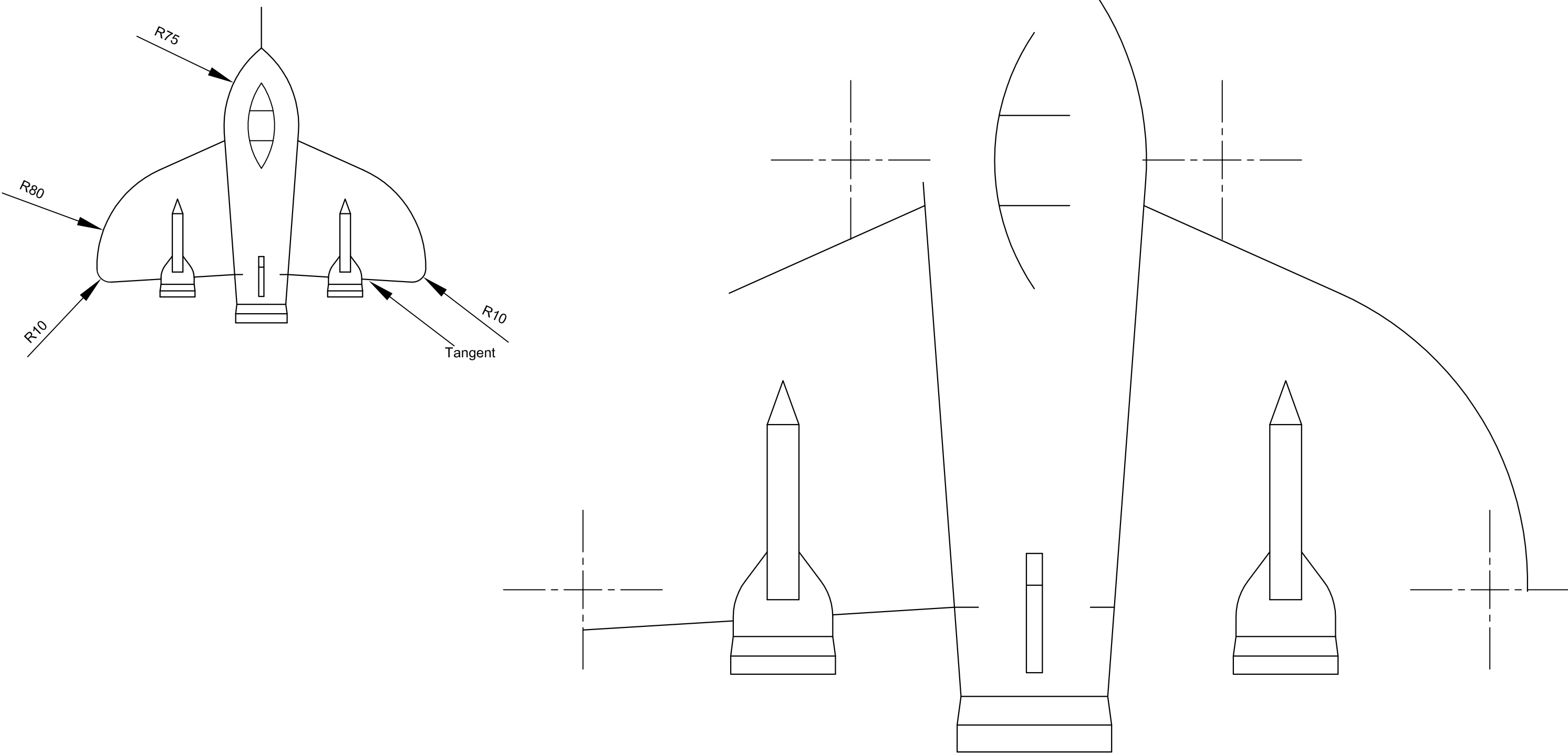
X

Y

QUESTION No. 4

An alien from a popular classic computer game needs to be enlarged to be used at a games fair. Taking the pole at P, complete the enlarged drawing that has been started off for you. (16 marks)
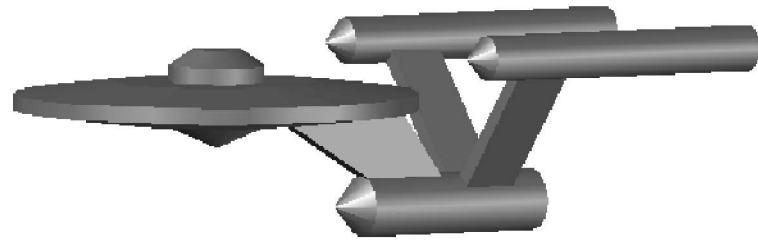
P

Sheet 2 of 4

GRAPHICAL COMMUNICATION
FORM 3_3rd Year_Half-Yearly 2014/15

KULLEGG SAN BENEDITTU
SECONDARY SCHOOL KIRKOP

NAME:

CLASS:

QUESTION No. 5

'Space Explorers' tablet app uses the following space ship drawing. Complete the drawing by:
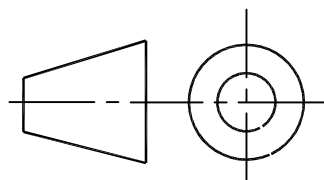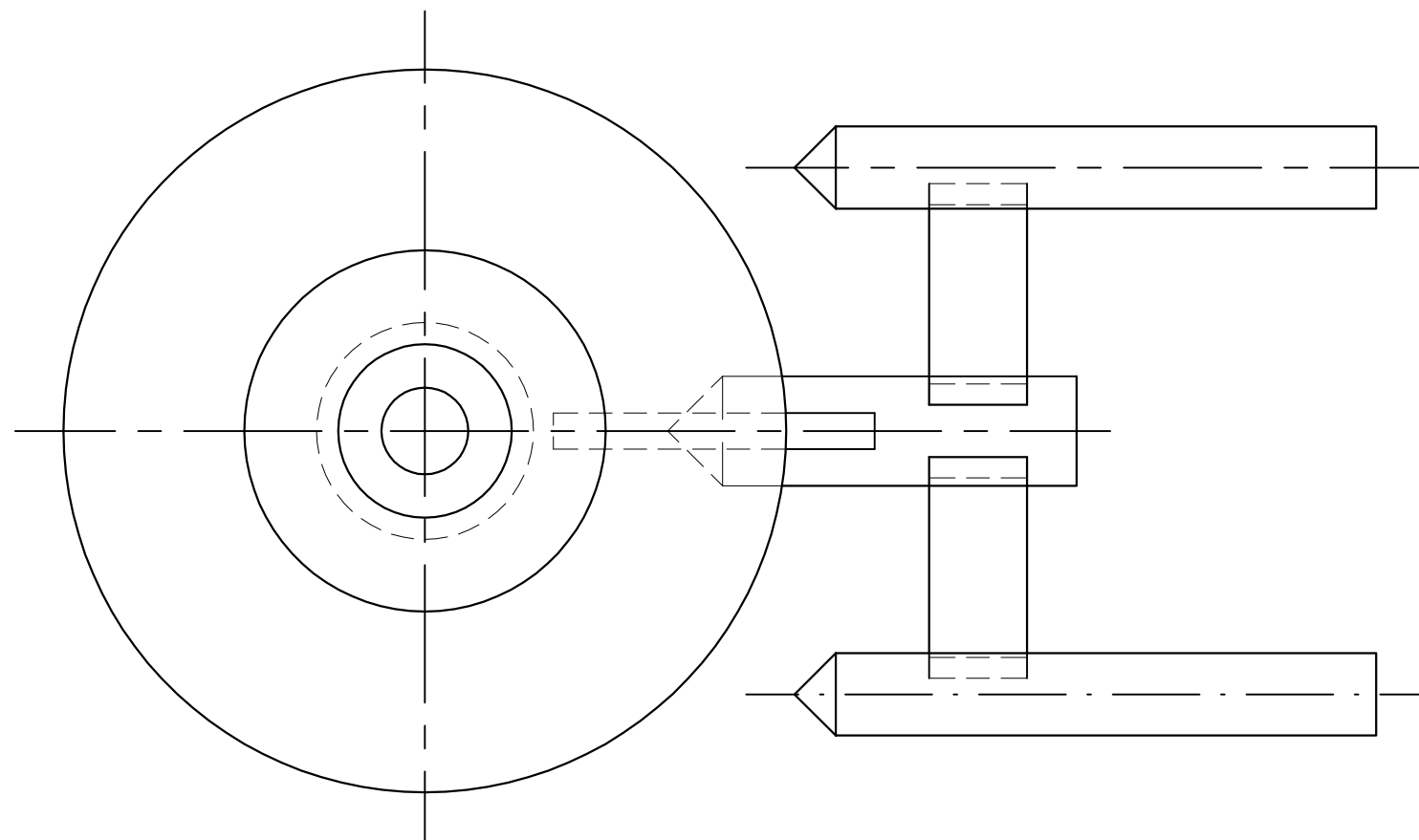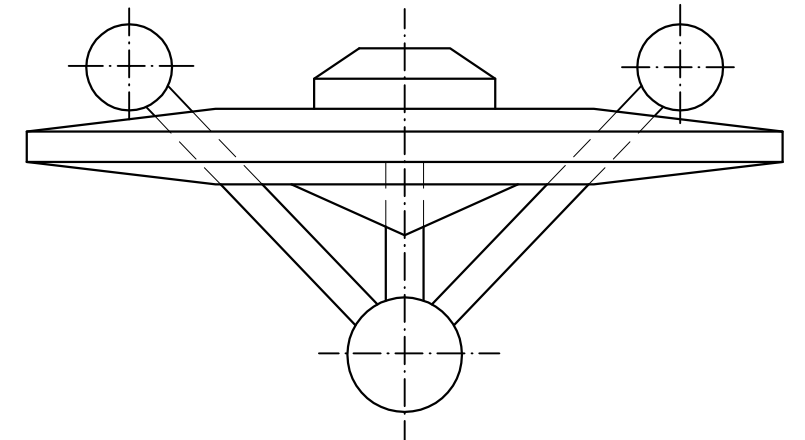a) completing the cabin using the three point circle.
b) locating the center and drawing the 75mm arc
c) drawing the 10mm circles
d) locating the center and drawing the 80mm arc
e) finding the tangential point and drawing the tangent at the back of the wing   (17 marks)

R75

R80

R10

R10

Tangent

Sheet 3 of 4

GRAPHICAL COMMUNICATION
FORM 3_3rd Year_Half-Yearly 2014/15

KULLEGG SAN BENEDITTU
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NAME:

CLASS:

QUESTION No. 6

The drawing below is an incomplete orthographic projection of a toy spaceship based on a popular series.
Complete the orthographic projection by drawing the Front Elevation.   (20 marks)

Sheet 4 of 4

GRAPHICAL COMMUNICATION
FORM 3_3rd Year_Half-Yearly 2014/15

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