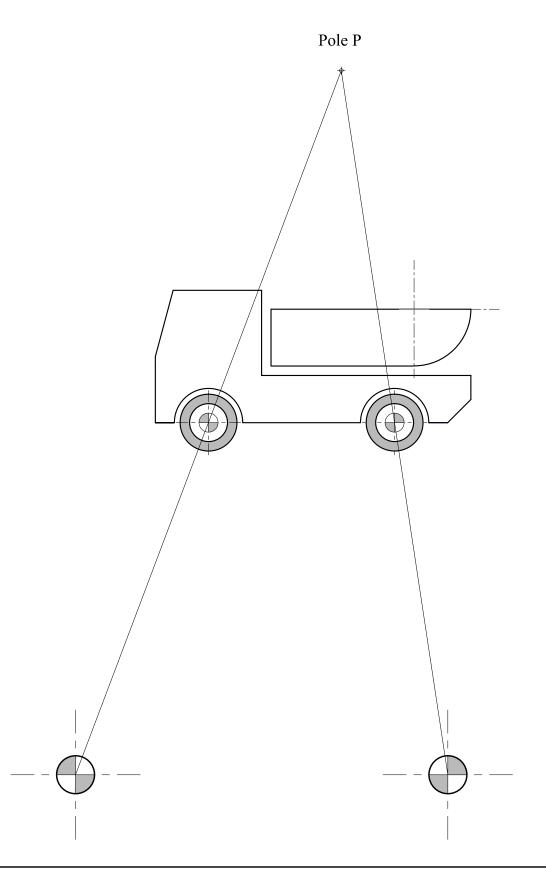
Question 1. A pictogram of a truck is given below. The centre lines of the wheels of an enlarged version of the truck are given. Complete the enlargement by using pole P as the centre of enlargement. *Note: The small circles representing the wheel hubs are given in the answer.*

(16 marks)



Question 2. The following computer programme is written for the use of a sailing club logo. The grid printed below represents an 800 x 600 graphical display.

Use the grid to draw the image produced by this programme.

DATA:
$$A = 50$$
; $B = 100$; $C = 150$; $D = 200$; $E = 250$; $F = 300$; $G = 350$; $H = 400$; $I = 450$; $J = 500$; $K = 550$; $L = 600$; $M = 650$; $N = 700$:

ACI 7: MOVE C,C; DRAW N,C; DRAW L,A; DRAW D,A; DRAW C,C:

ACI 3: MOVE G,D; DRAW C,D; DRAW G,I; DRAW G,D:

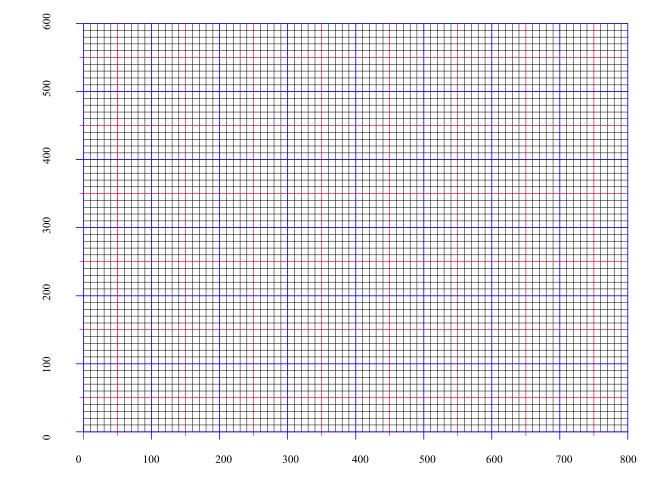
ACI 5: MOVE H,D; DRAW H,J; DRAW M,D; DRAW H,D:

ACI 1: MOVE H,J; DRAW H,K; DRAW F,J; DRAW HJ:

The computer responds to the following colour commands:

<u> </u>	<u> </u>
Colour	ACI Colour Index (Number)
RED	1
GREEN	3
BLUE	5
BLACK	7

(12 marks)



Sheet 1 of 4

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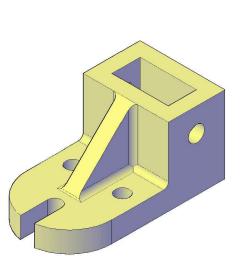
Name:

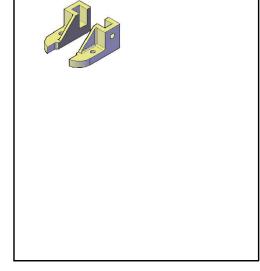
Class:

Question 3. A pictorial view, an end view, a plan view and an incomplete front view of a cast iron bracket are given. In the space provided:

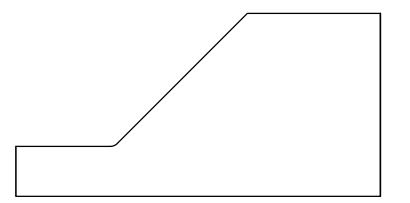
- a. Draw a pictorial freehand sketch of Section A - A and mark the areas to be sectioned.
- b. Complete sectional front A - A.

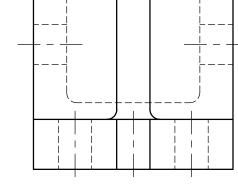
(16 marks)



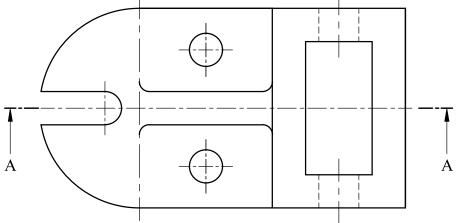


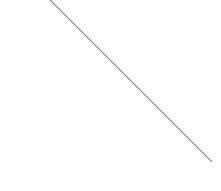
Pictorial freehand sketch of section A-A

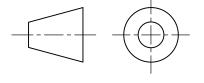




SECTIONAL FRONT A-A







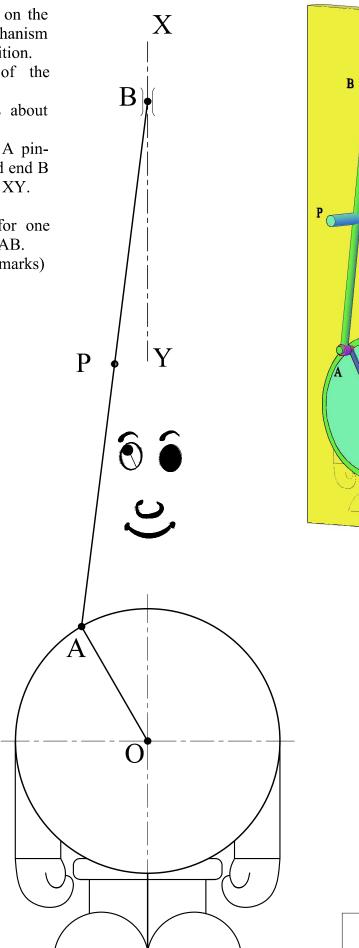
Projection Symbol

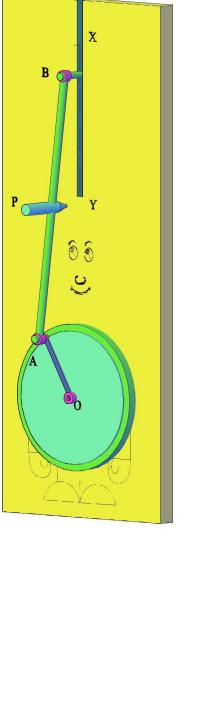
Question 4. The illustration on the right shows a linkage mechanism used in a school annual exhibition. The arrangement consists of the following parts:

- Crank OA which rotates about pivot O.
- Link AB which has end A pinjointed with crank OA and end B allowed to slide along slot XY.
- P is a point on link AB.

Plot the locus of point P for one complete revolution of crank AB.

(12 marks)





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Name:

Class:

