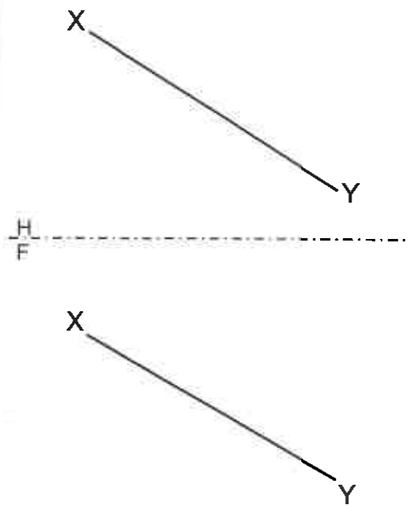
1

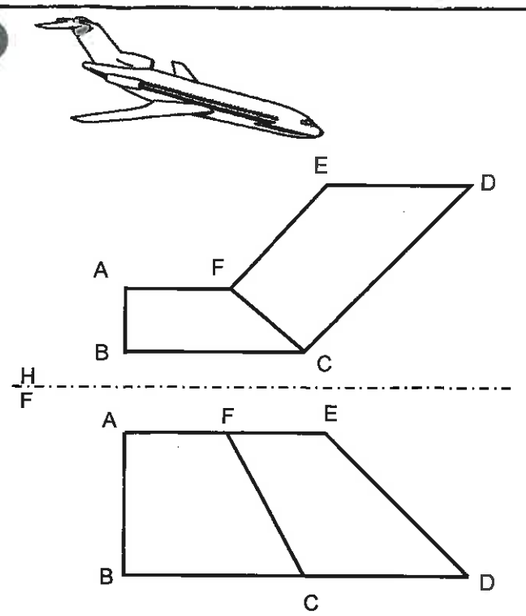
UNIVERSITEIT VAN JOHANNESBURG / UNIVERSITY OF JOHANNESBURG				DWG. NAME / NAAM :
PROJECTION :	GKM No. :	DRAWN BY / GETEKEN DEUR :		DWG. / TASK / TAAK NO. **Supp Exam GKM 1A (2018)**
		STUDENT / STUDENTE No.	DATE / DATUM : SCALE / SKAAL:	SHEET / BLAAI 1 OF / VAN 1

2

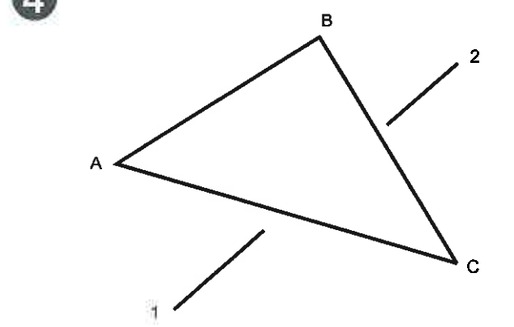


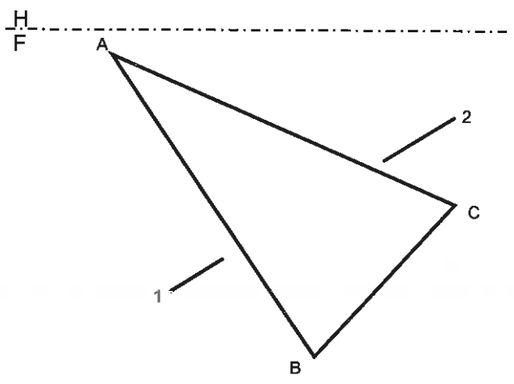
Angle with profile plane /
Hoek met die profiel vlak:_____

3

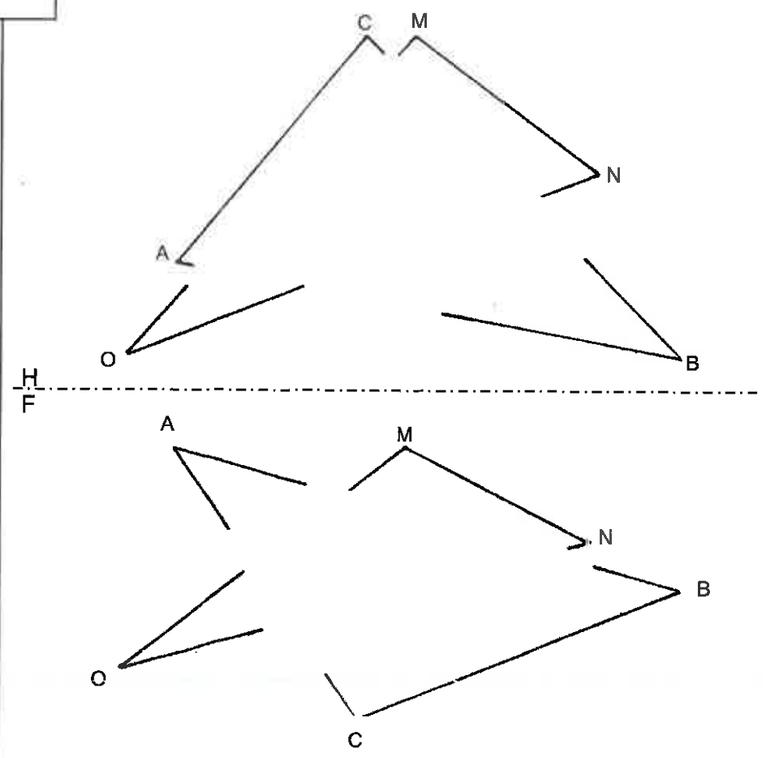


4





5



UNIVERSITY OF JOHANNESBURG

PROGRAM	:	BACCALAUREUS INGENERIAE **MECHANICAL ENGINEERING**
SUBJECT	:	**Graphical Communication 1A**
CODE	:	**GKM 1A11 and GKMEEA1**
DATE	:	SUPPLEMENTARY EXAM JULY 2018
DURATION	:	3 hours
WEIGHT	:	50 : 50
TOTAL MARKS	:	100

EXAMINER	:	DR FF PIETERSE
MODERATOR	:	PROF RL LAUBSCHER
NUMBER OF PAGES	:	1 PAGE A4 AND 1 PAGE A3
INSTRUCTIONS	:	
REQUIREMENTS	:	ANSWER ON A3 PAPER PROVIDED

INSTRUCTIONS TO CANDIDATES:

PLEASE ANSWER ALL THE QUESTIONS.

QUESTION 1: (54)

Given: *Figure 1 shows an isometric projection of a component.*

Question: *Draw a detail (working) drawing of the component in* third angle orthographic projection by using:

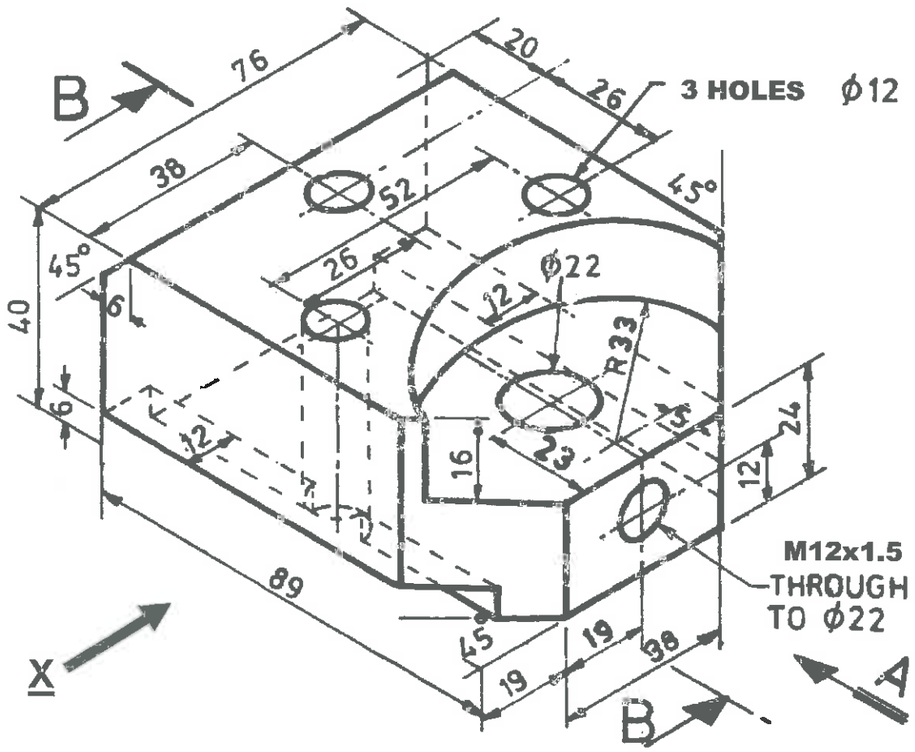
1. *Scale 1:1.*
2. *Full-section front view B-B (Front view on Arrow X),right view (A) and top view.*
3. *Projection symbol and dimensions according to SABS 0111 specifications.*
4. *Show all hidden detail.*

QUESTION 2: (6)
Find the true length and angle with the profile plane of line X-Y.

QUESTION 3: (10)
Obtain the dihedral angle between the side and front windows of an aircraft as given.

QUESTION 4: (10)
Determine the piercing point of the line 1-2 on the plane ABC by using the edge view (auxiliary) method. Complete the views by showing the correct visibility.

QUESTION 5: (20)
Given the triangle MNO and the triangle ABC. Find the cutting plane by using the edge view (auxiliary) method. Complete the visibility in both the vertical and horizontal planes.



Figuur 1 /Figure 1

----------o0o----------