HW
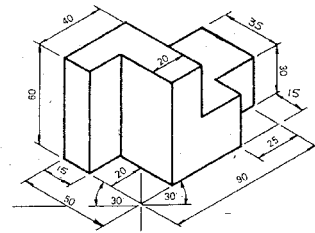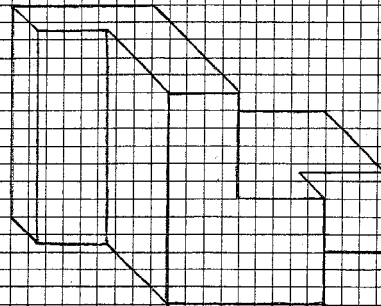
Solution

THE DRAWING ABOVE SHOWS
AN ISOMETRIC PRESENTATION.
DRAW FULL SIZE, THE OBLIQUE
VIEW OF THE BLOCK.

NAME		SEAT Nº.	COURSE	SECT.	TITLE		PROJECTION	SCALE	DRG. Nº
			CE101	03	FREEHAND SKETCHING			1:5	S2
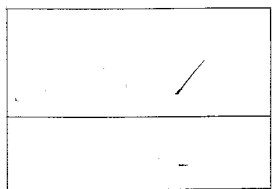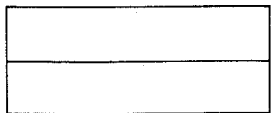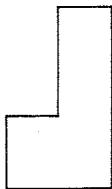
FRONT VIEW

B

TOP VIEW

A

B

C

TOP VIEW

D

FRONT VIEW

K.F.U.P.M. C.E. GRAPHICS GROUP

PROJECTION SCALE DRG Nº
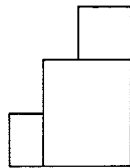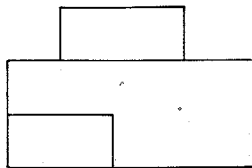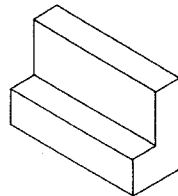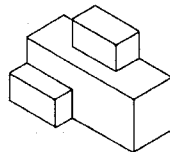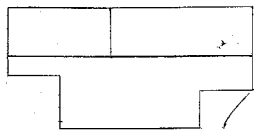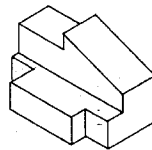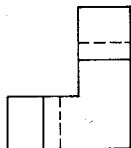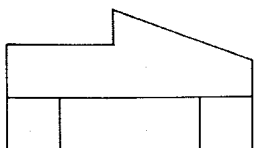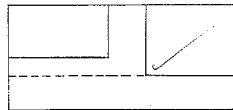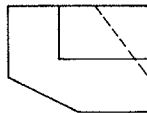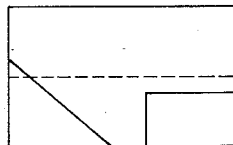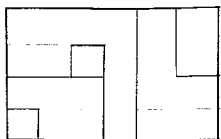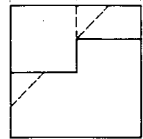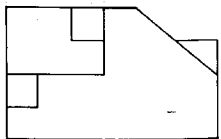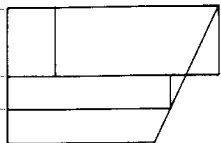
TOP VIEW

LEFT S. VIEW
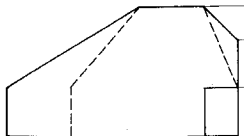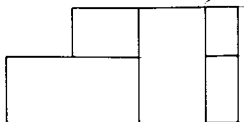
RIGHT S. VIEW

TOP VIEW

A

good lines

B

C

D

K.F.U.P.M. C.E. GRAPHICS GROUP
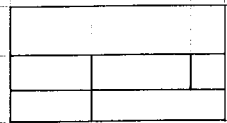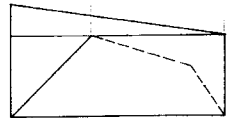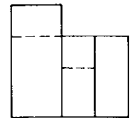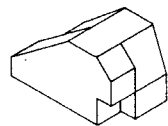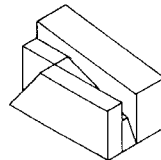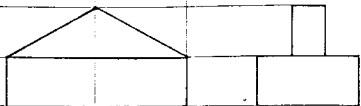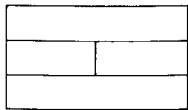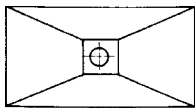
FRONT VIEW

B
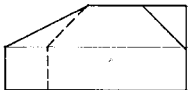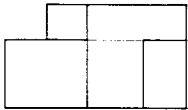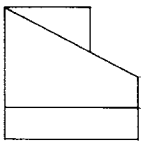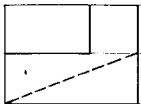
RIGHT S. VIEW

A

B

C

good lines

D

FRONT VIEW

RIGHT S. VIEW
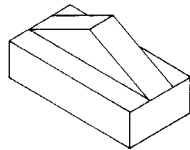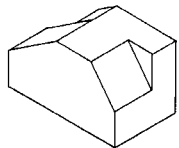
D
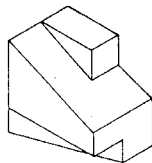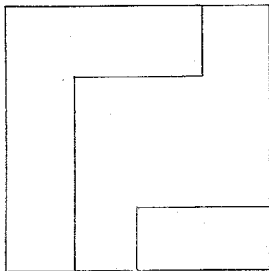
TOP VIEW
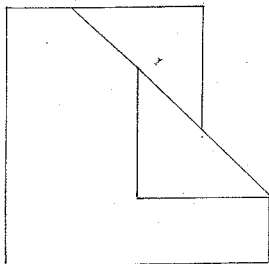
FRONT VIEW
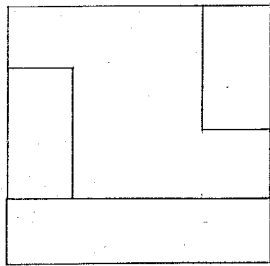
RIGHT HAND SIDE VIEW
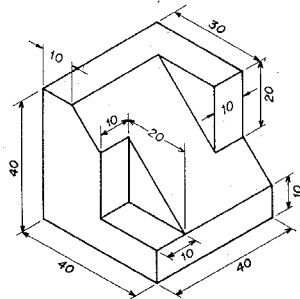
DRAW 3 VIEWS OF THE OBJECT SHOWN ABOVE, USE A CORRECT SCALE TO FILL THE SPACE PROVIDED ON THE DRAWING SHEET.

(10)

K FIIRM OF DRAWING
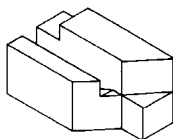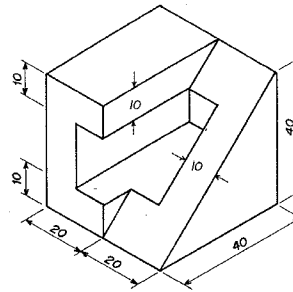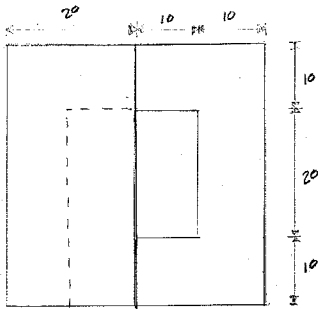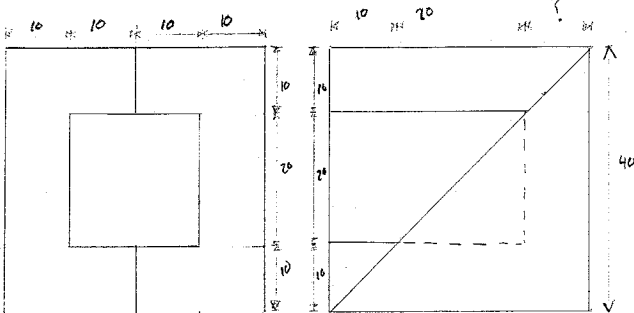
1. DETERMINE THE CORRECT SCALE THAT FIT WITHIN THE SPACE GIVEN TO YOU.
2. DRAW THREE VIEW OF THE OBJECT SHOWN.

K.F.U.P.M. C.E. GRAPHICS GROUP

NAME	SEAT Nº	COURSE SECT.	TITLE		PROJECTION	SCALE	DRG. Nº
AI-SHAMMARY : HATEM	212347	CE-101-01	ORTHOGRAPHIC PROJECTION		⊕ ⊏	2:1	P8

65

7

15

85

15

20

40

φ16
Thro'

φ10
Thro'

45

12

30

50

20

15

40

20

15

20

10

20

85

15

25
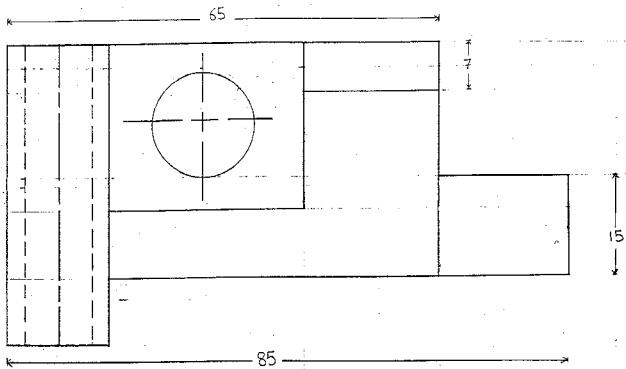
FRONT

Draw 3 views of the object shown above.
Scale 2:1

TOP VIEW

OK
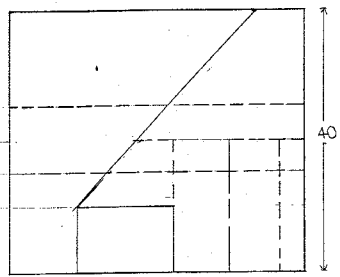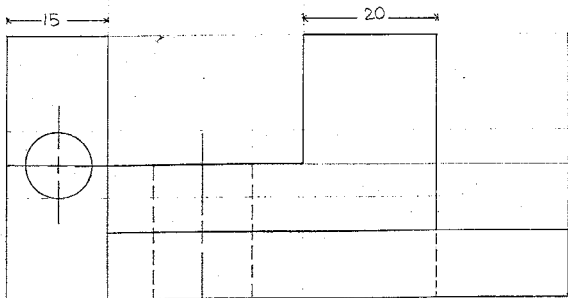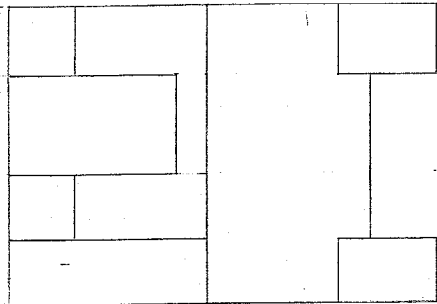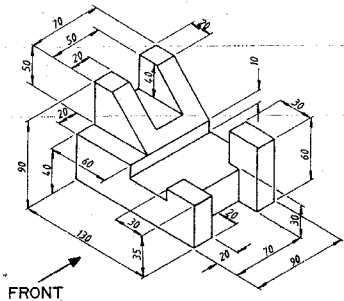
DRAW 3 VIEWS OF THE
OBJECT SHOWN ABOVE.
SCALE 1:1
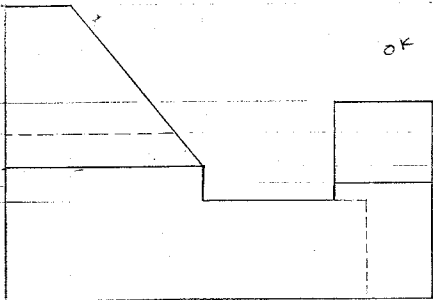
FRONT

FRONT VIEW

OK

RIGHT SIDE VIEW

OK

(10)

K.F.U.P.M. C.E. GRAPHICS GROUP

5
5
20
45
30
15
25
10
20
20
45
15
20
40
3

FRONT

iews of the object shown above.
:1

20
5
25
40
45
15

45
20
20

5
15
50
10
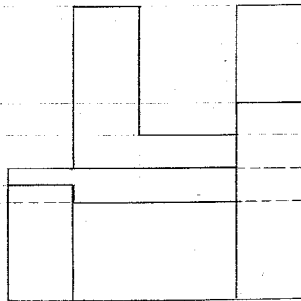
K.F.U.P.M. C.E. GRAPHICS GROUP
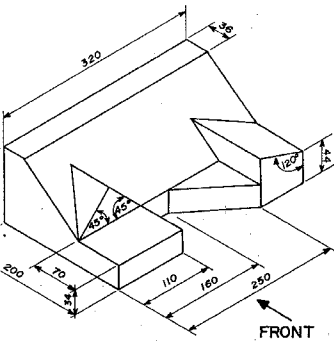
Draw 3 views of the object shown above
Scale: 1:2
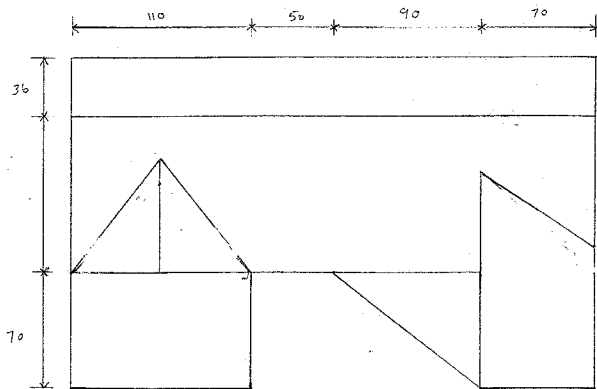
TOP VIEW
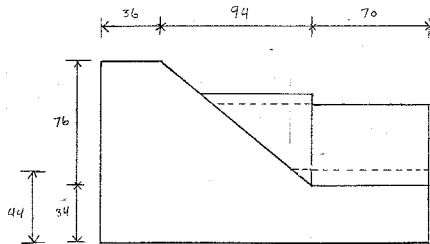
LEFT SIDE VIEW
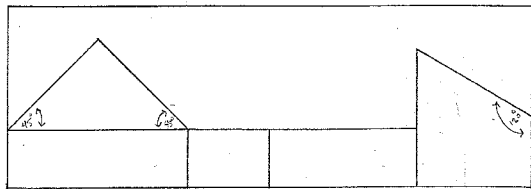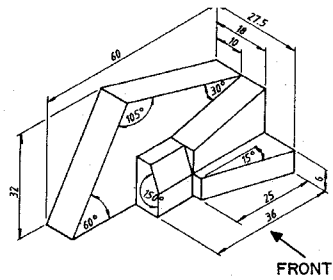
FRONT VIEW

Draw 3 views the object shown above.
Scale: 2:1
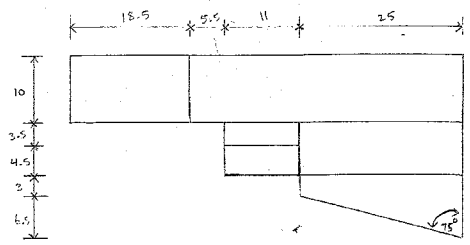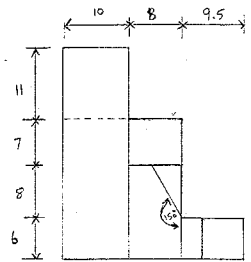
$\bigcirc$.10

OK

TOP VIEW

LEFT SIDE VIEW
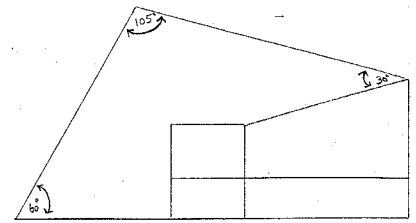
FRONT VIEW

FRONT

K.F.U.P.M. C.E. GRAPHICS GROUP

NAME	SEAT Nº.	COURSE	SECT.	TITLE	PROJECTION	SCALE	DRG. Nº
		CE 101	1	ORTHOGRAPHIC PROJECTION		2:1	P17

80

60°

R15

R10

R10

R20

50
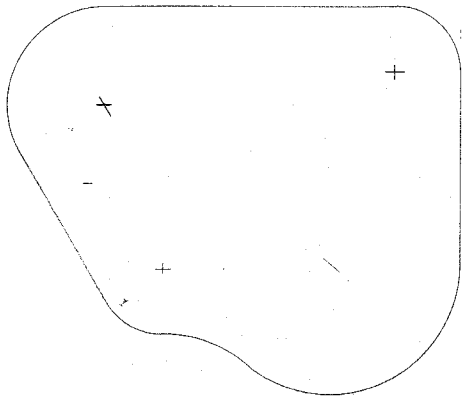
R20
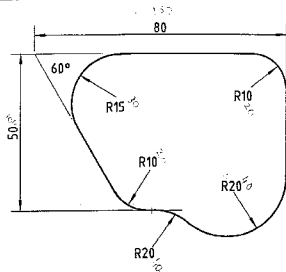
DRAW TO THE REQUIRED SCALE.
SHOW ALL CONSTRUCTION LINES.
SHOW ALL TANGENTS.

OK

good lines
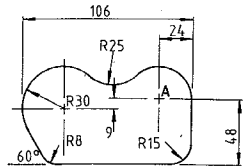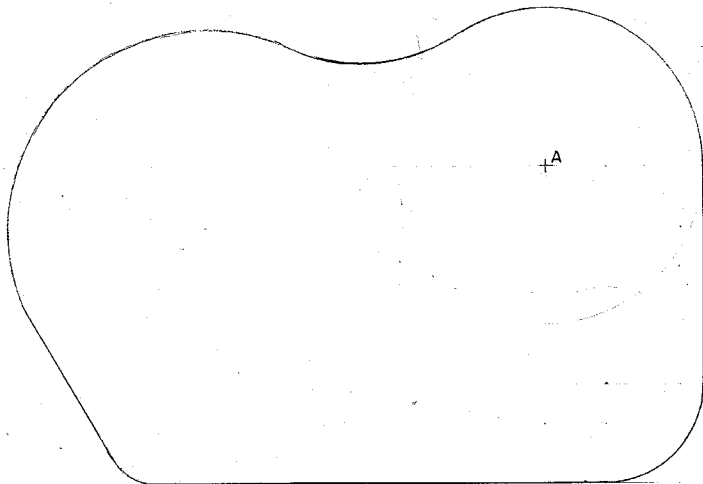
10/10

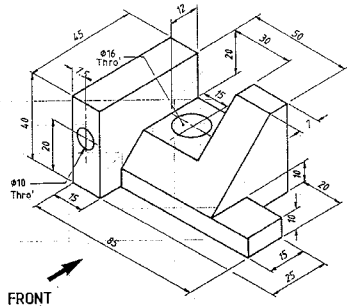DRAW THE OBJECT SHOWN TO A SCALE OF 2:1
ALL DIMENSIONS ARE IN MM.

K.F.U.P.M. C.E. GRAPHICS GROUP

NAME	SEAT NO.	COURSE SECT.	TITLE		PROJECTION	SCALE	DRG. NO.
		CE101	TANGENCY				T 1

Dimensions on detail view: 106, 24, R25, R30, R8, 9, R15, 48, 60°, A

C +

C

6

10   8

10   10

20
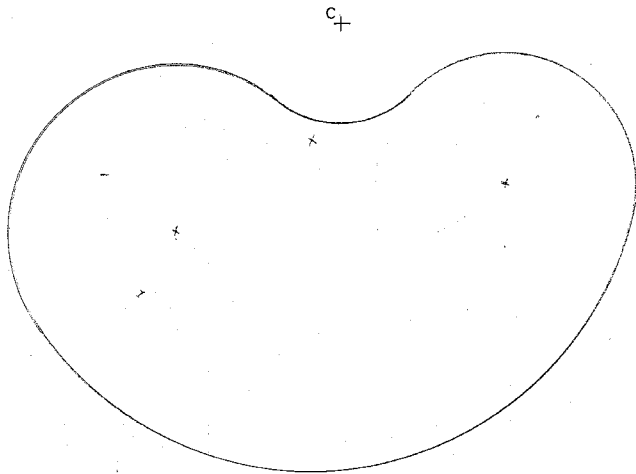
DRAW THE FIGURE SHOWN ABOVE TO
SCALE 1:200.
SHOW ALL CONSTRUCTIONS FOR LOCATING
CENTERS AND TANGENT POINTS.
DIMENSIONS ARE IN METERS.

10

K.F.U.P.M. C.E. GRAPHICS GROUP
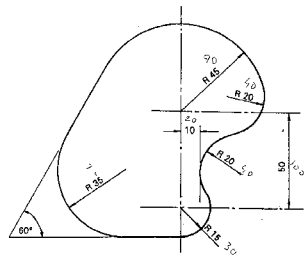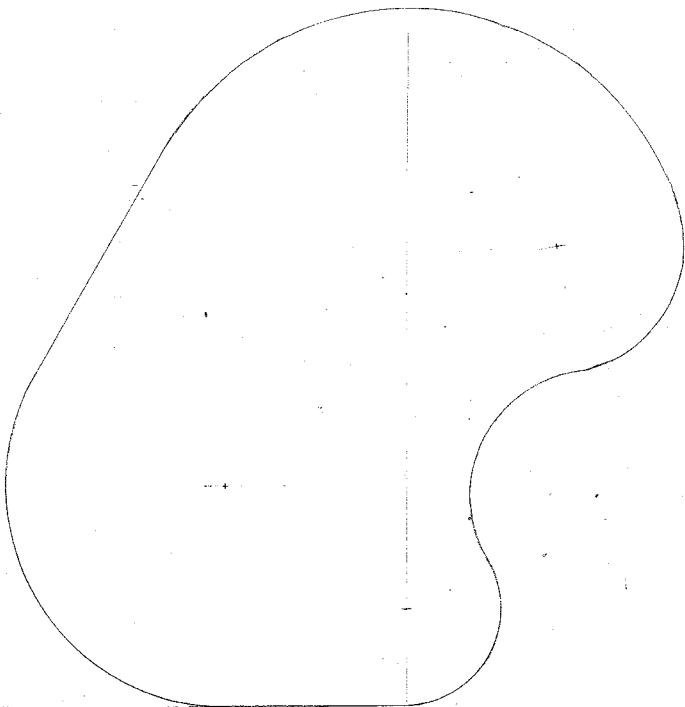
Draw the gasket shown to a scale of 2:1
All dimensions are in mm.

K.F.U.P.M. C.E. GRAPHICS GROUP

NAME	SEAT Nº.	COURSE SECT.	TITLE		PROJECTION	SCALE	DRG. Nº.
				TANGENCY			T 7
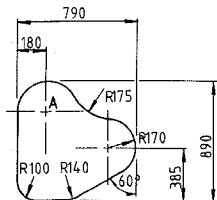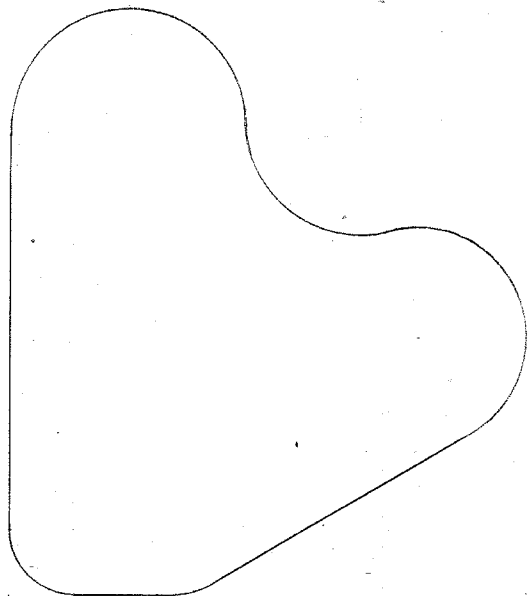
The drawing shows the gasket detail with dimensions: R 45, 90, 40, R 20, 20, 10, R 20, 50, R 35, 60°, R 15, 30.

DRAW THE GASKET SHOWN USING A SCALE OF 1:5
ALL DIMENSIONS ARE IN MM.

K.F.U.P.M. C.E. GRAPHICS GROUP
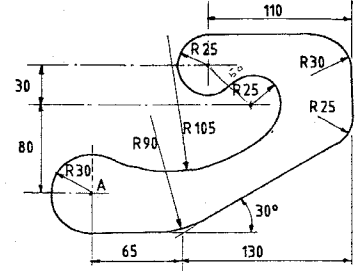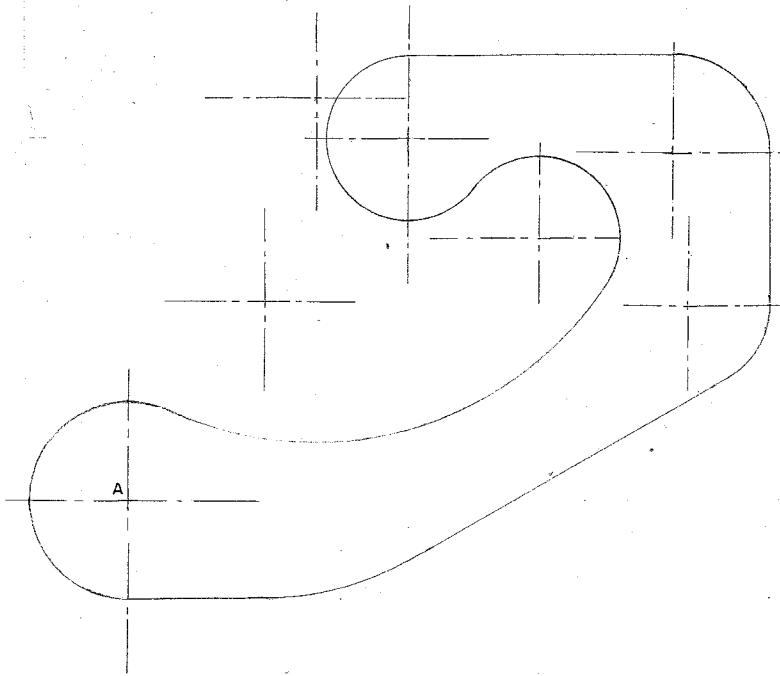
DRAW GASKET SHOWING ALL THE
TANGENCY POINTS AND ALL
CONSTRUCTION.

R25 R30 R25 R105 R90 R30 A 30°

110 30 80 65 130

10

A

K.F.U.P.M. C.E. GRAPHICS GROUP

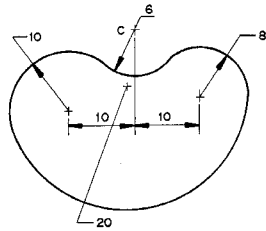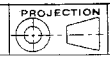| NAME	SEAT Nº.	COURSE SECT.	TITLE	PROJECTION	SCALE	DRG.Nº
		CE101	TANGENCY	⊕ ⊏	1:1	T4
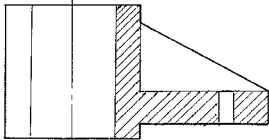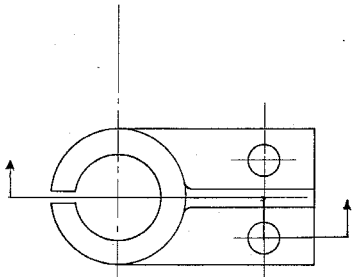
COMPLETE FRONT VIEW AS AN OFFSET SECTION.
SHOW THE CUTTING PLANE.
THE HOLES ARE THROUGH HOLES.
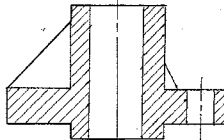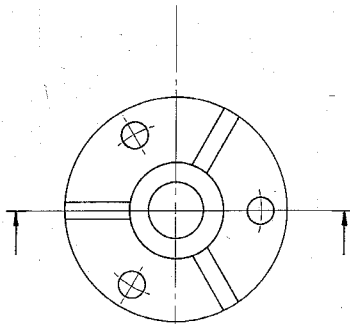
COMPLETE THE FRONT VIEW AS A FULL SECTION.
THE HOLES ARE THROUGH HOLES.
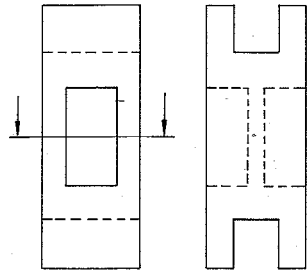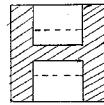
DRAW THE TOP (PLAN) VIEW AS A FULL SEC'

COMPLETE ALL THREE DRAWINGS

NAME		SEAT Nº.	COURSE SECT.	TITLE	SECTIONAL VIEWS	PROJECTION	SCALE	DI
							NTS	S
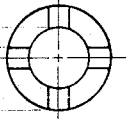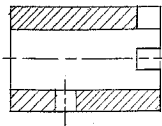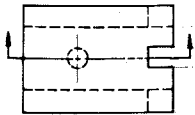
A
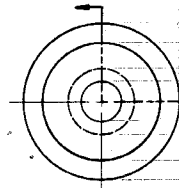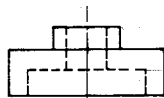
B
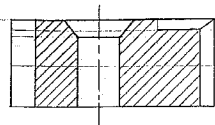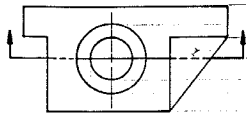
D
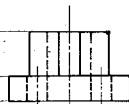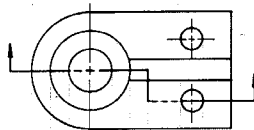
D

Observe the cutting planes line and
Draw the appropriate section views.

K.F.U.P.M. C.E. GRAPHICS GROUP

PROJECTION | SCALE | DRG. Nº.

SEAT Nº | COURSE SECT | TITLE

A—A

B—B

C—C

D—D

TOP VIEW

Ø 20 — 39 DP.
4 HOLES

Ø 45
64 CBORE 32 DP.

Ø 20 — 38 SF
4 HOLES
(SEE DETAIL
— R25
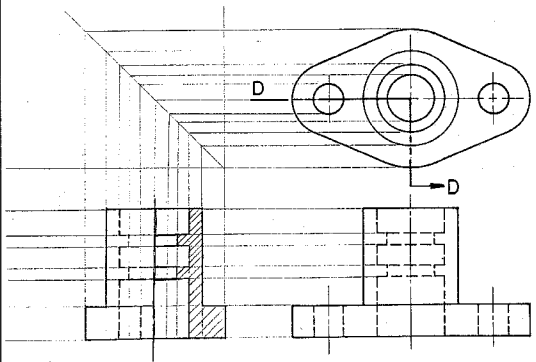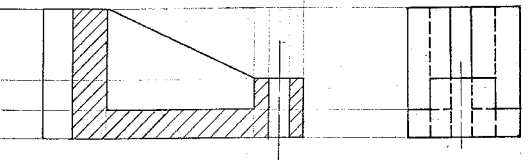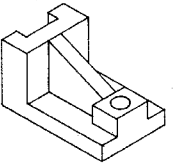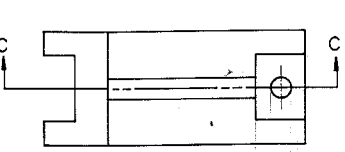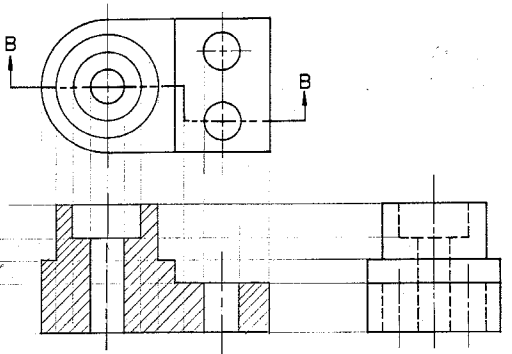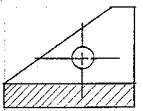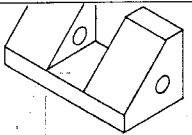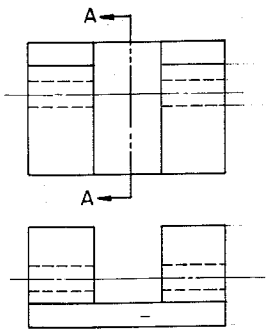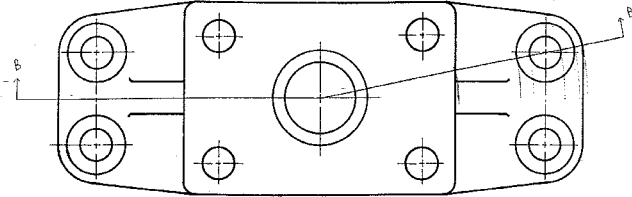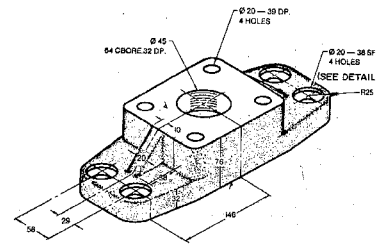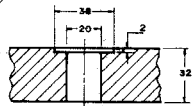
DETAIL 'A' - SFACE
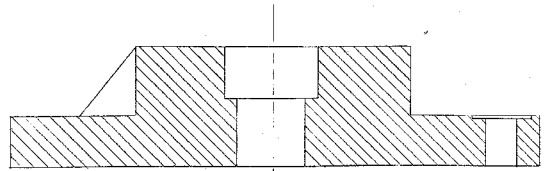
SECTION B-B

Question: Add an offset cutting plane line to the given top view
and draw the front view as an offset sectional view.

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NAME		SEAT Nº.	COURSE	SECT.	TITLE		PROJECTION	SCALE	DRG. Nº
								1 : 2	SEC 8

1. Complete the Top & Right side views.
2. Draw a sectional view that will clearly show the internal features of all 3 types of hole.
3. Draw a section on A-A
4. Title each view and indicate 3 main dimensions.

3 HOLES X Ø10, C'BORE Ø20x8 DEEP
2 HOLES Y Ø10, CSK AT 90° TO Ø20.
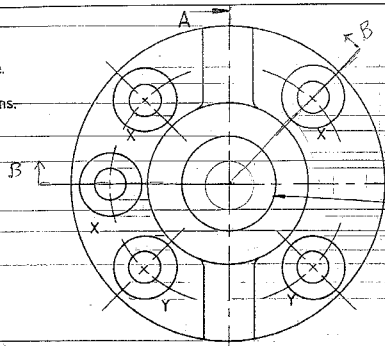
Ø30 HOLE HAS
10° INCLUDED ANGLE (TAPER)

$9\frac{1}{2}$
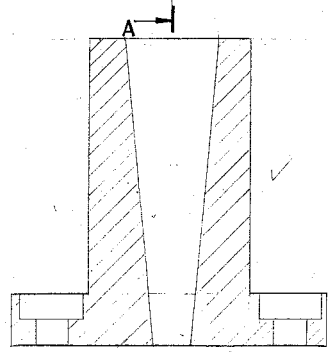
A

B

SECTION A-A

SECTION B-B
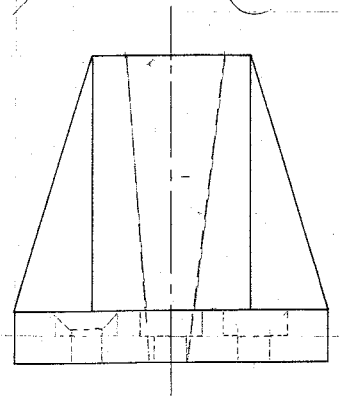
NAME	SEAT Nº	COURSE	SECT.	TITLE	PROJECTION	SCALE	DRG. Nº
WAEL KABLI		CE-101	3	SUPPORT STAND.		1:1	SEC 6

SECTION B-B

SECTION A-A

B

B
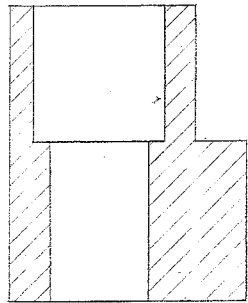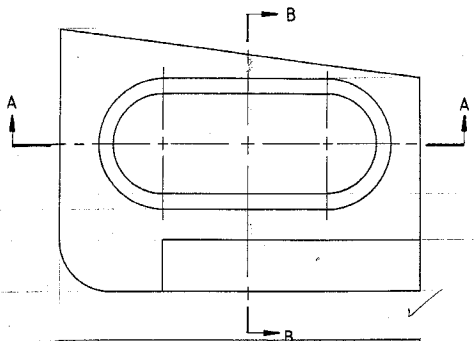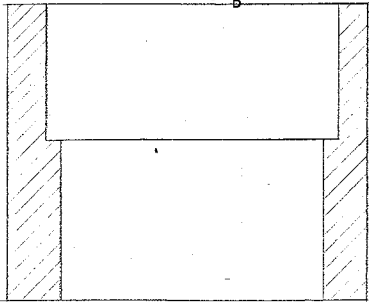
A

A
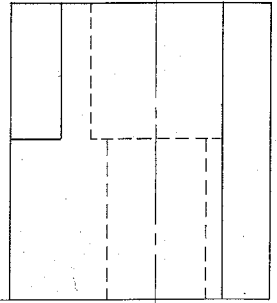
The top and right side view of a guide
block are shown.
Draw the required sections on A-A and B-B.
Add the principal dimensions.

K.F.U.P.M. C.E. GRAPHICS GROUP
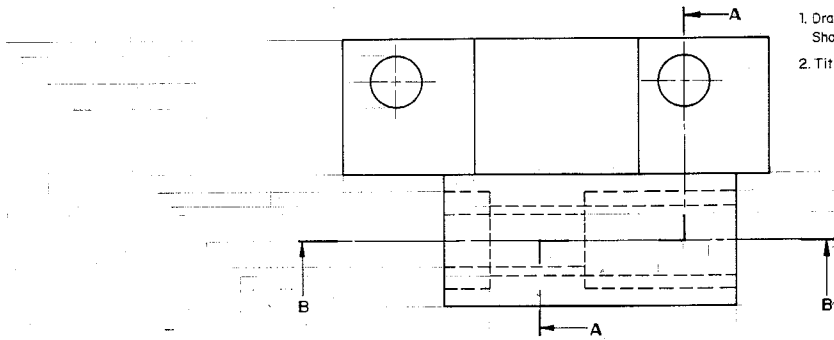
1. Draw a section on B-B and a left side view. Show all hidden lines and 3 principal dimensions
2. Title all views.
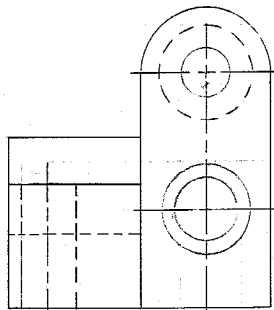
LEFT SIDE VIEW

SECTION B-B
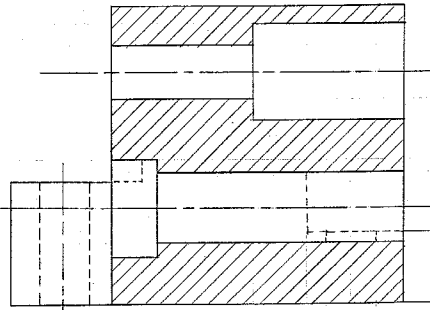
SECTION A-A
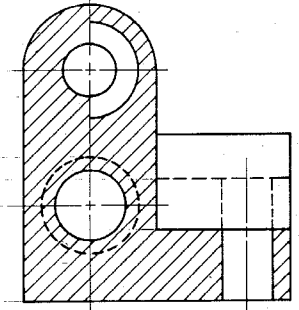
K.F.U.P.M. C.E. GRAPHICS GROUP
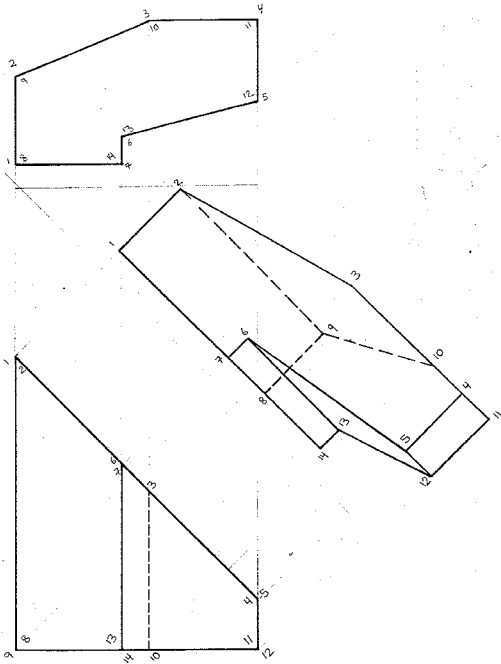
Draw a complete auxiliary view that
will include the true shape of the
inclined surface.

NAME	SEAT Nº.	COURSE	SECT.	TITLE	PROJECTION	SCALE	D
		CE101	01				
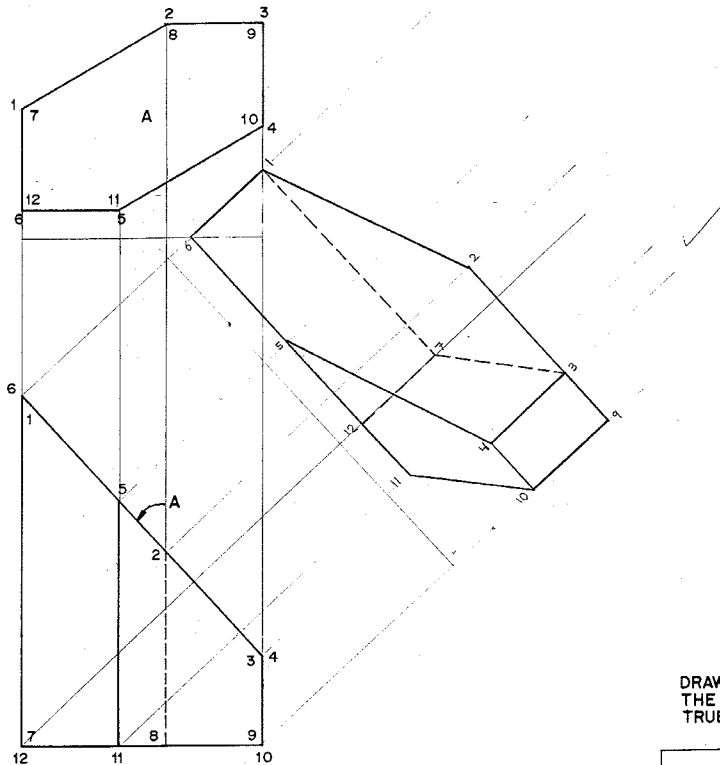
DRAW A COMPLETE AUXILIARY VIEW OF
THE OBJECT SHOWING SURFACE A AS
TRUE SURFACE (TS).

K.F.U.P.M. C.E. GRAPHICS GROUP

NAME		SEAT NO.	COURSE	SECT.	TITLE		PROJECTION	SCALE	DRG. NO.
			CE101	01					A6-3

A

A
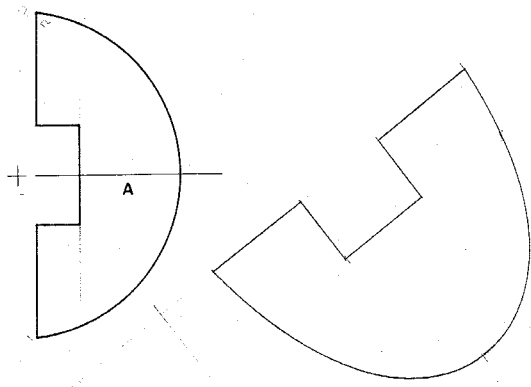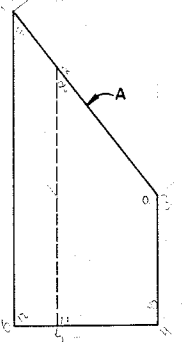
DRAW AN AUXILIARY VIEW OF
SURFACE A ONLY.

K.F.U.P.M. C.E. GRAPHICS GROUP
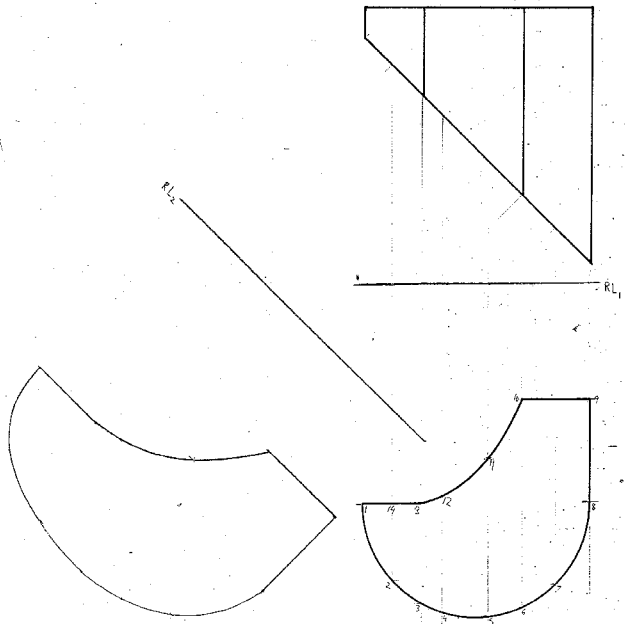
Draw a <u>partial auxiliary</u> view which
shows the true shape of the inclined
surface.

NAME	SEAT Nº.	COURSE	SECT.	TITLE	PROJECTION	SCALE	D
		CE 101	1				
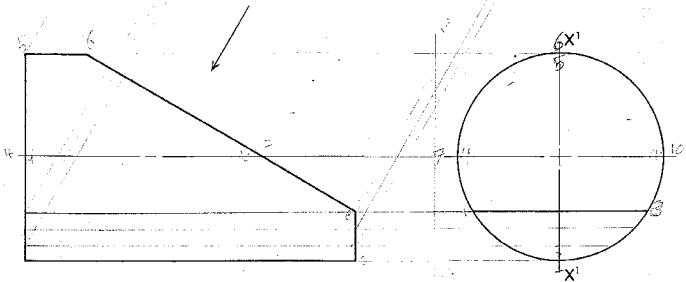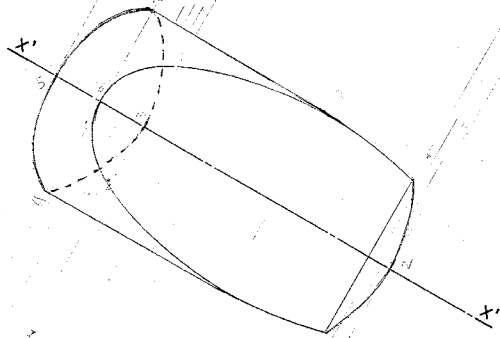
DRAW A COMPLETE AUXILIARY PLAN ON
X'X' SHOWING THE TRUE SHAPE OF
THE SLOPING SURFACE.

K.F.U.P.M. C.E. GRAPHICS GROUP

Draw a partial auxiliary view which shows
the true shape of inclined surface.

NAME	SEAT Nº.	COURSE SECT.	TITLE		PROJECTION	SCALE	DRG.Nº
		CE 101	AUXILIARY VIEW.		⊕-◁	1:1	A6-8

25
10
20
45°
10
10
A
40
50

FRONT

10

1,2   5,6   3,4
11,12
10,13
7   8   9,14

2,1
12
13
9,8,7
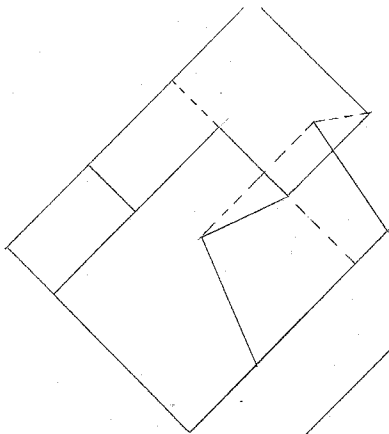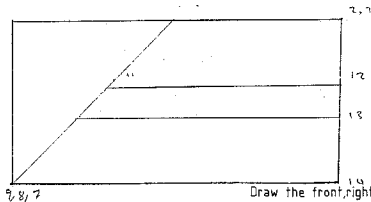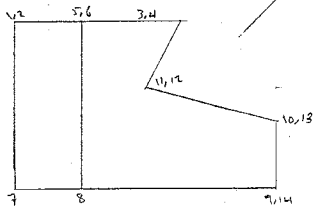
Draw the front, right side views and a complete auxiliary
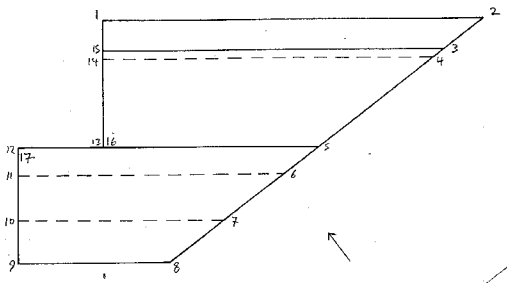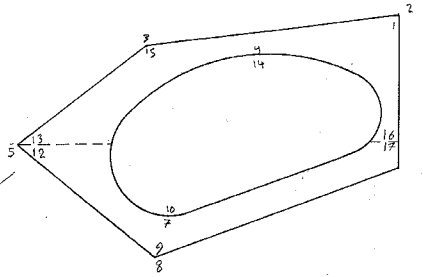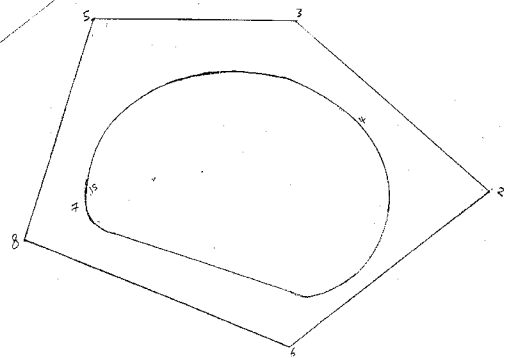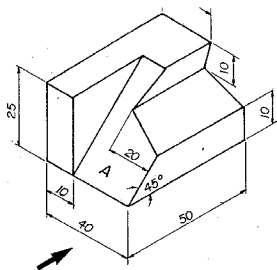view to show the true shape of surface A of the object
shown above

NAME

SEAT Nº   COURSE SECT.   TITLE
CE101   01

PROJECTION   SCALE   DRG. Nº
2:1   A6-1C

(10)

Complete the front view of the intersecting hexagonal and rectangular prisms, showing the lines of intersection. Show the hidden lines.
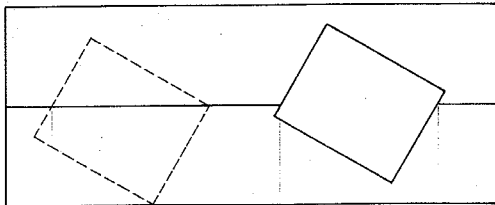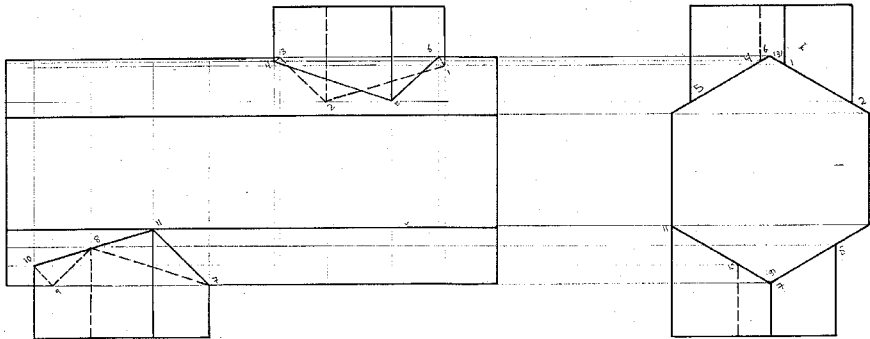
K.F.U.P.M. C.E. GRAPHICS GROUP

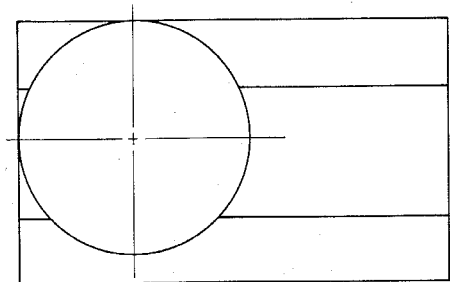| NAME	SEAT Nº.	COURSE	SECT.	TITLE	PROJECTION	SCALE	DRG. Nº.
Key		CE101	01	INTERSECTION OF HEXAGONAL & RECTANGULAR PRISMS		1:1	IN 7-1

TOP VIEW
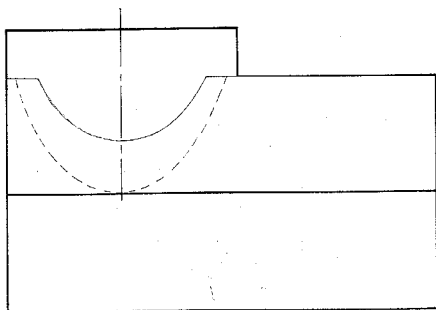
FRONT VIEW
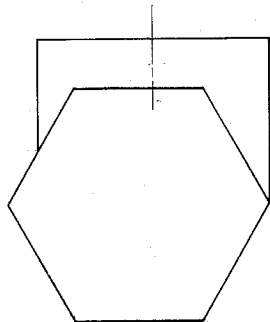
RIGHT SIDE VIEW

linder meets a hexagonal prism.
plete the front view showing the lines of intersection and all hidden lines.

...agonal prism meets a cylinder .
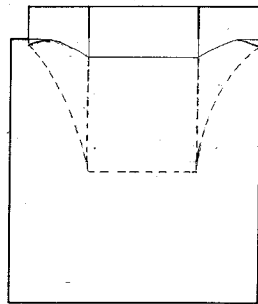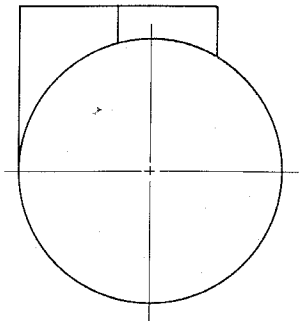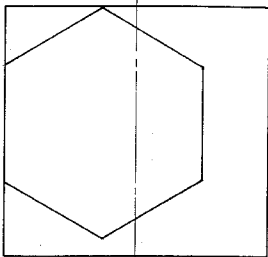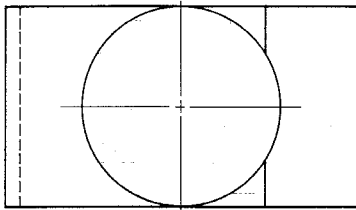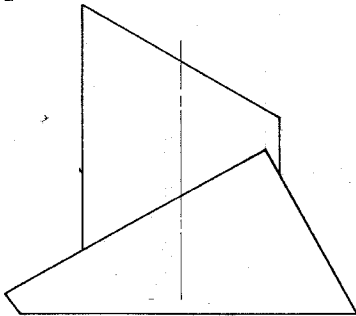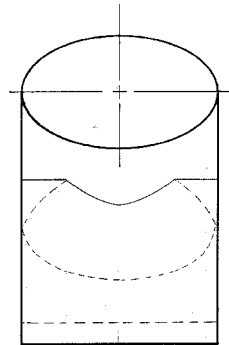...lete the right side view showing the lines of intersection and all hidden lines.
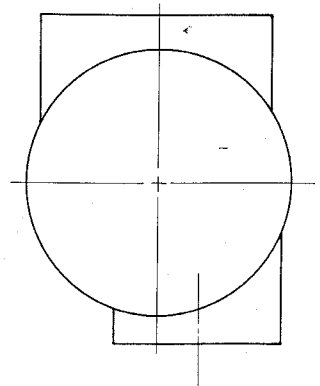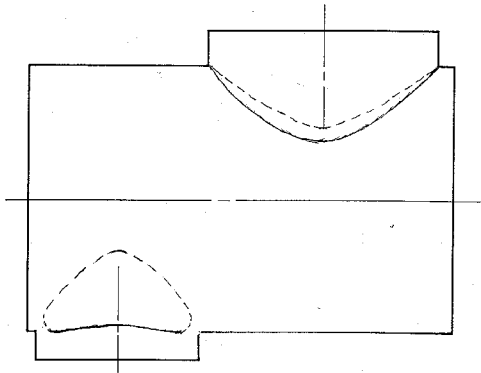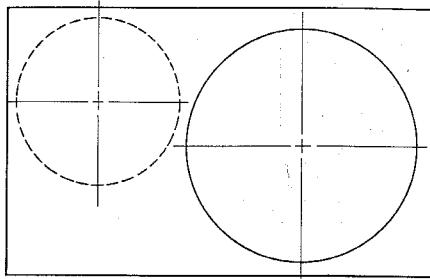
TOP VIEW

FRONT VIEW

RIGHT SIDE VIEW

(16)

A cylinder intersects an irregular prism.
Complete the right side view showing the lines of intersection and all hidden lines.

K.F.U.P.M. C.E. GRAPHICS GROUP

| | | | | PROJECTION | SCALE | DRG. N°. |

| ME | | SECT. N° | COURSE CODE | TITLE |

Complete the front view of the three intersecting cylinders, showing the lines of intersection.
Show all hidden lines.

K.F.U.P.M. C.E. GRAPHICS GROUP

NAME	SEAT NO.	COURSE	SECT.	TITLE	PROJECTION	SCALE	DRC
Key Solution				INTERSECTION OF THREE CYLINDERS	⊕-◁	1:1	IN