

ENGINEERING GRAPHICS

2019

ఎంగ్యెనీరింగ్ గ్రాఫిక్స్

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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ENGINEERING

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

AMARNATH MA GRADING INSTITUTION OF

ALL DIMENSIONS ARE IN MM.

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY

GANDIPET, HYDERABAD - 500 075

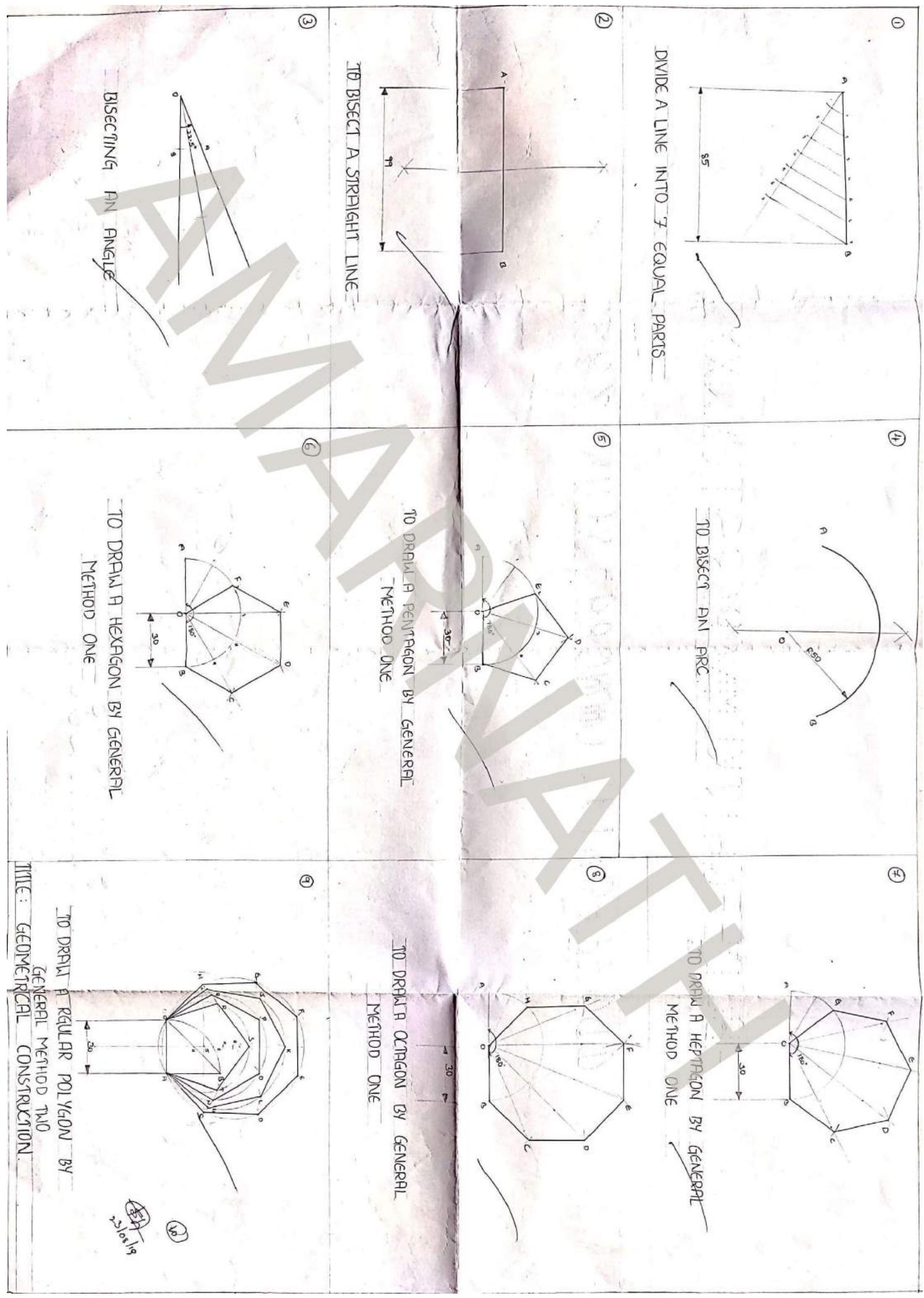
TITLE: LF TRING

NAME: G. AMARNATH

CLASS: ECE-2

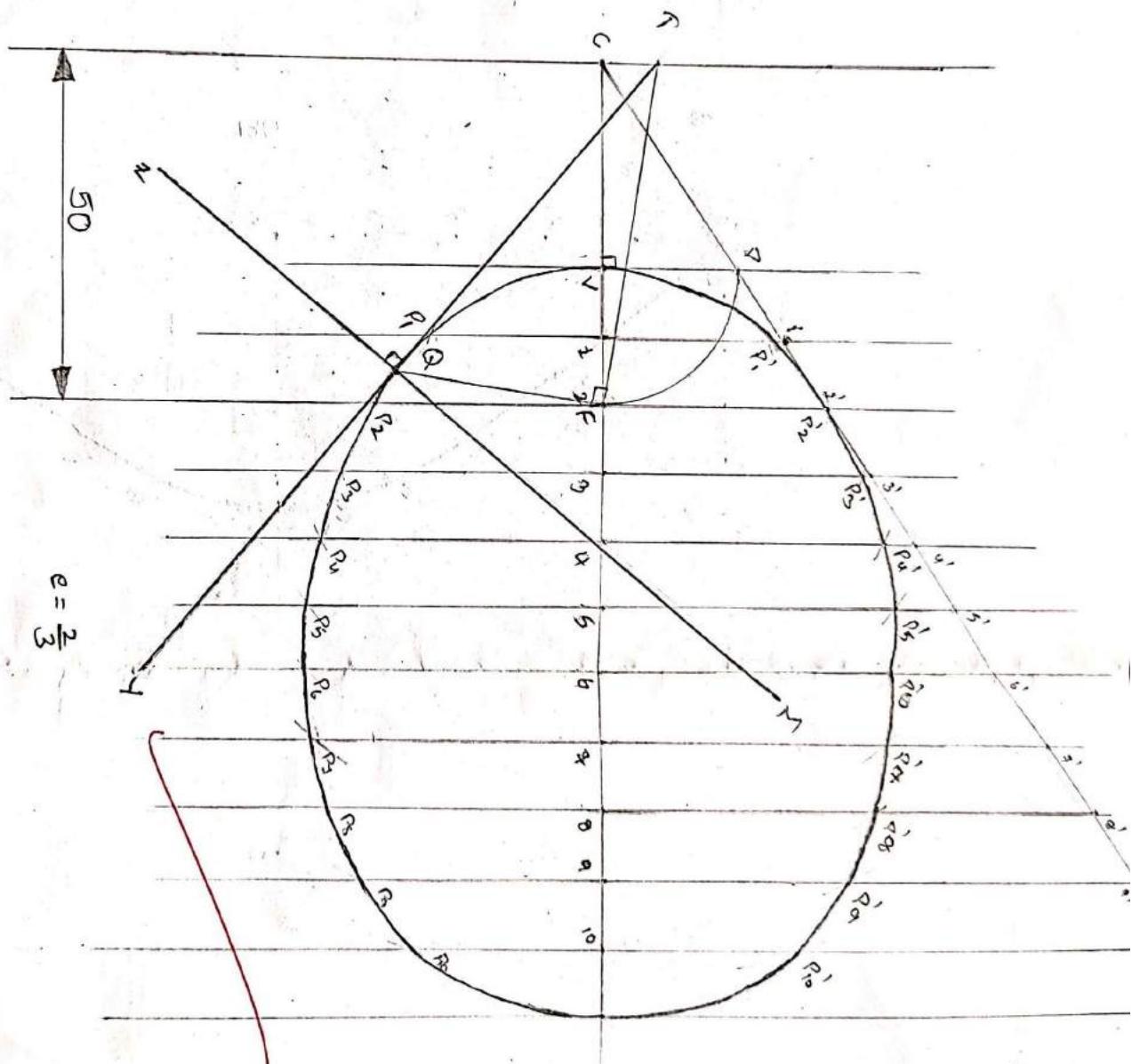
ROLL No. DATE: 21/06/2019 SHEET No: 01



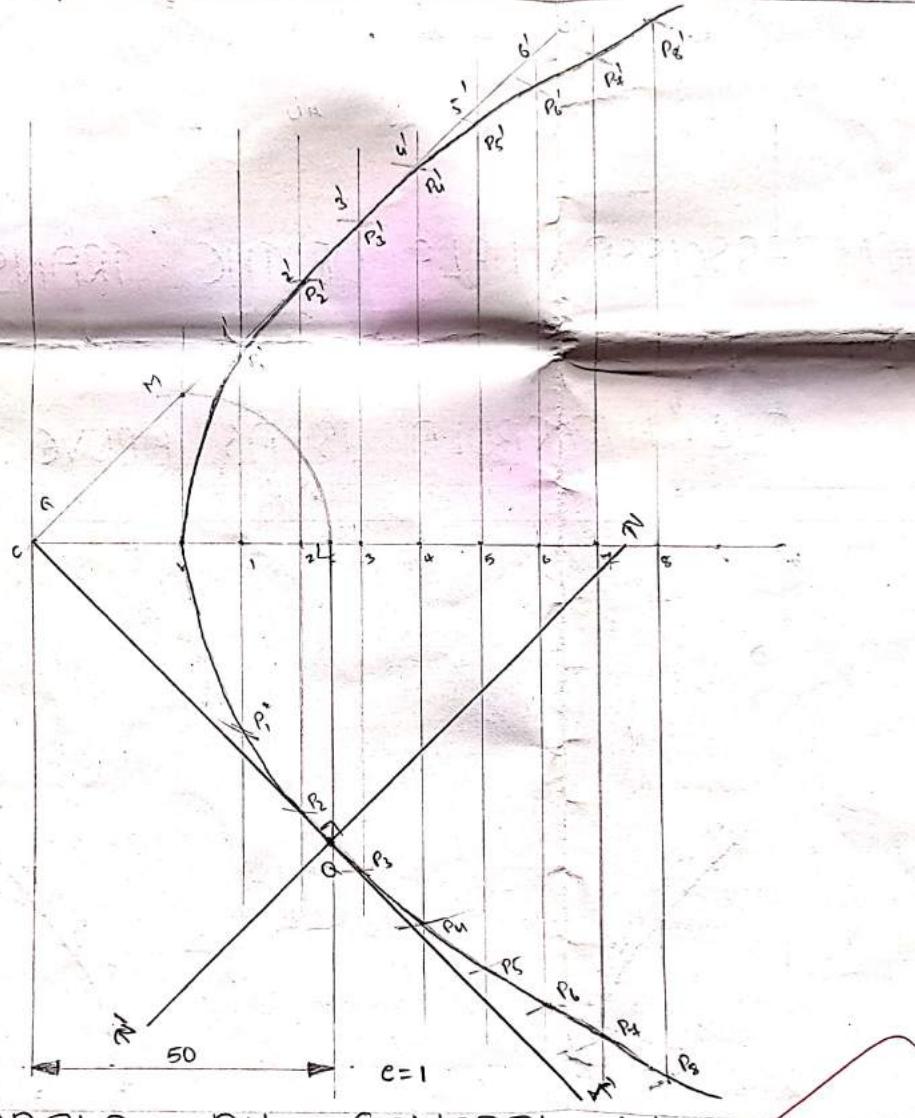


ELLIPSE BY GENERAL METHOD.

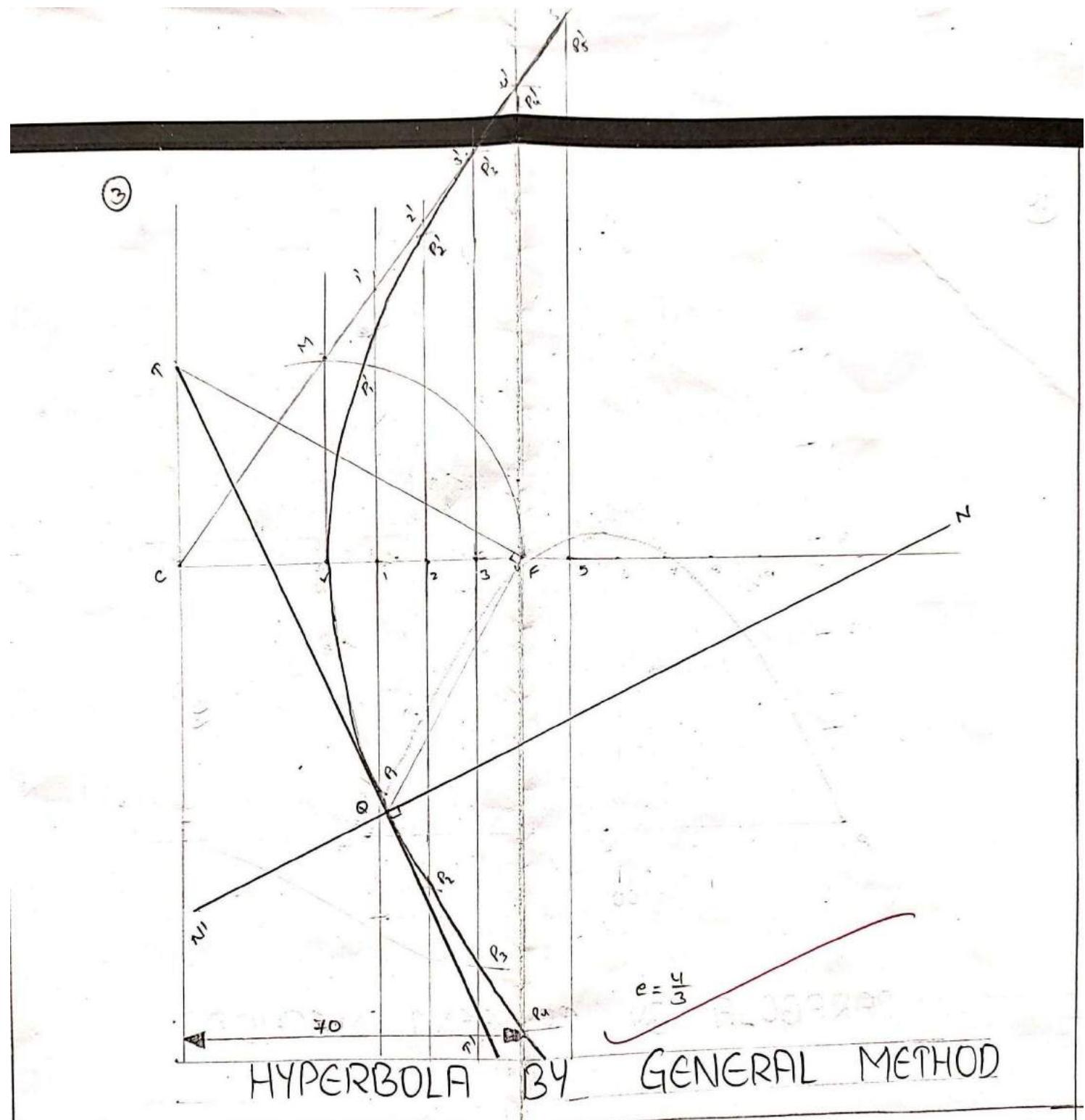
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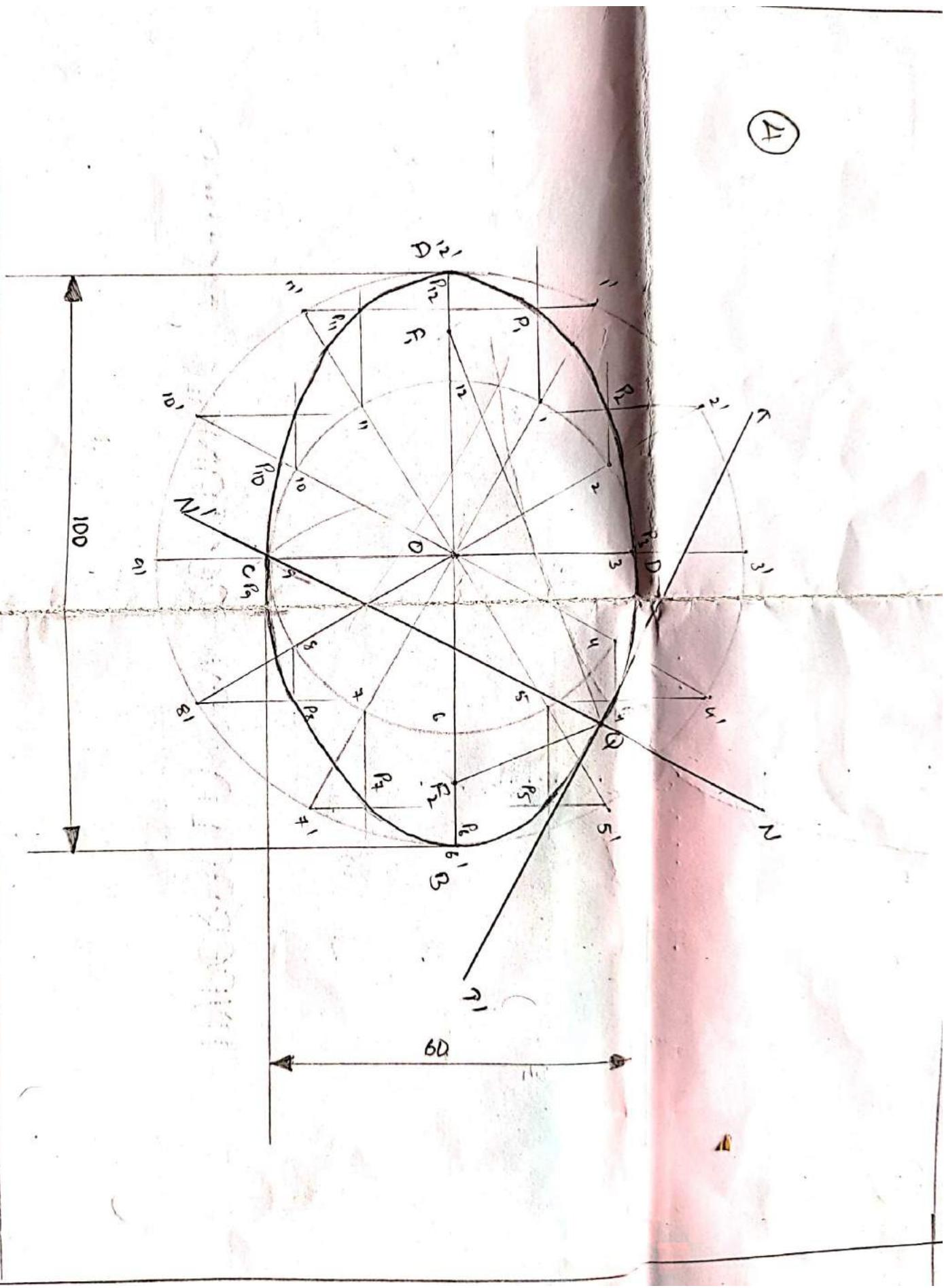
②



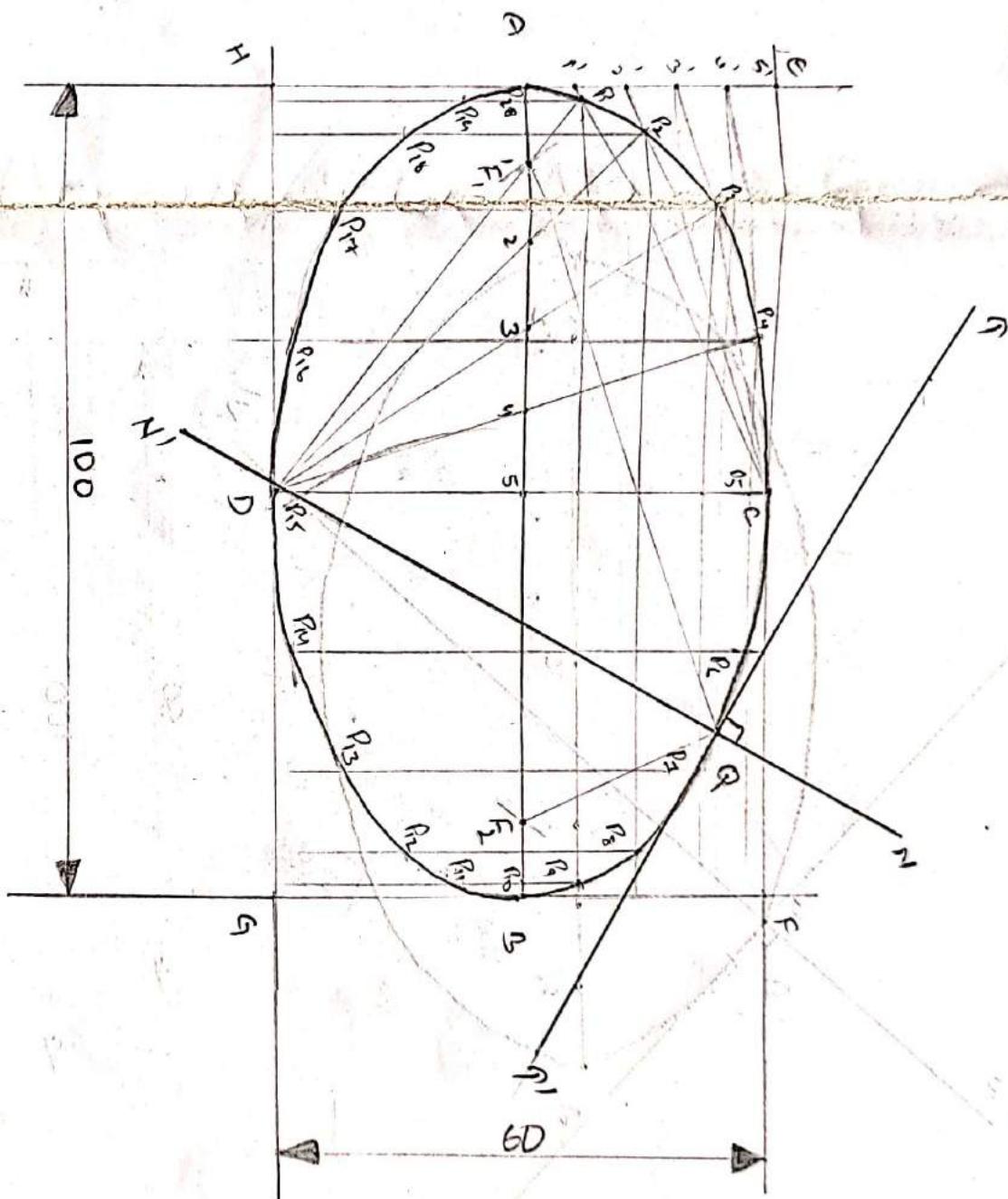
PARABOLA BY GENERAL METHOD



ELLIPSE BY CONCENTRIC CIRCLE METHOD

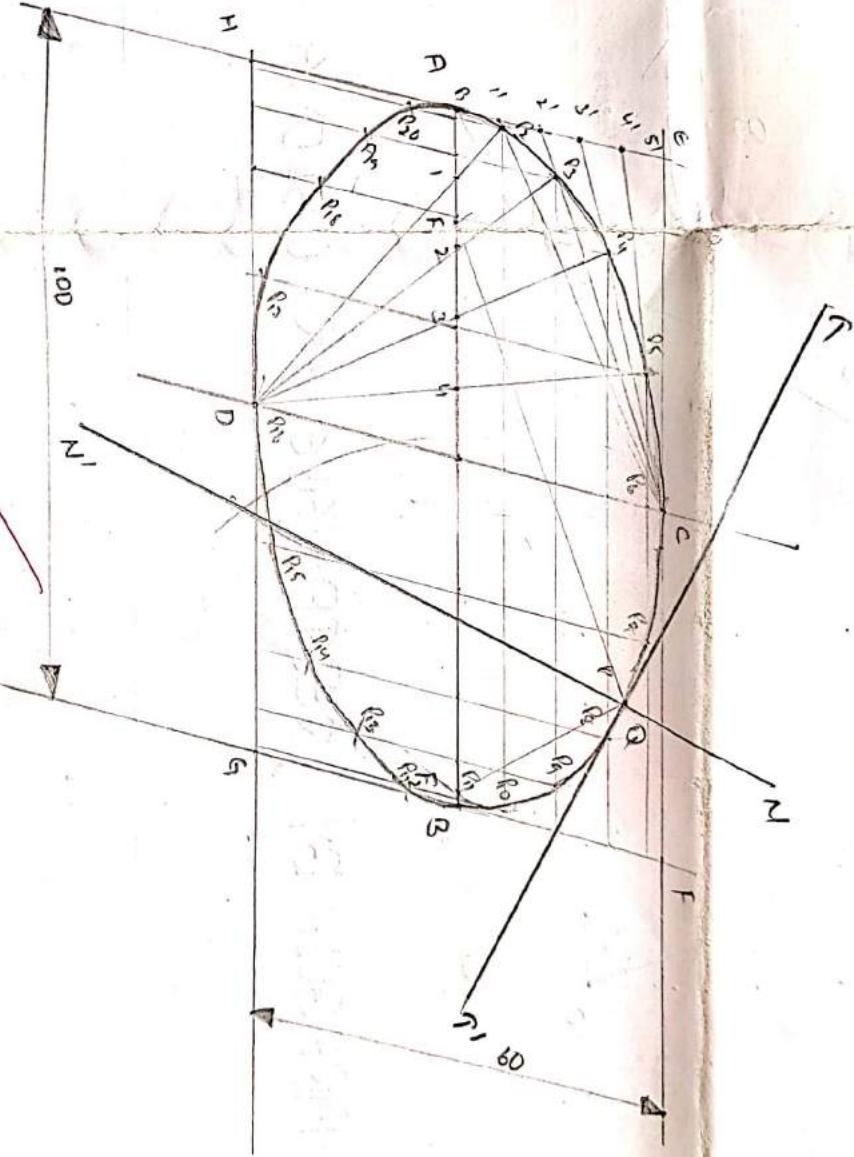


ELLIPSE BY RECTANGLE OR OBLONG METHOD



(5)

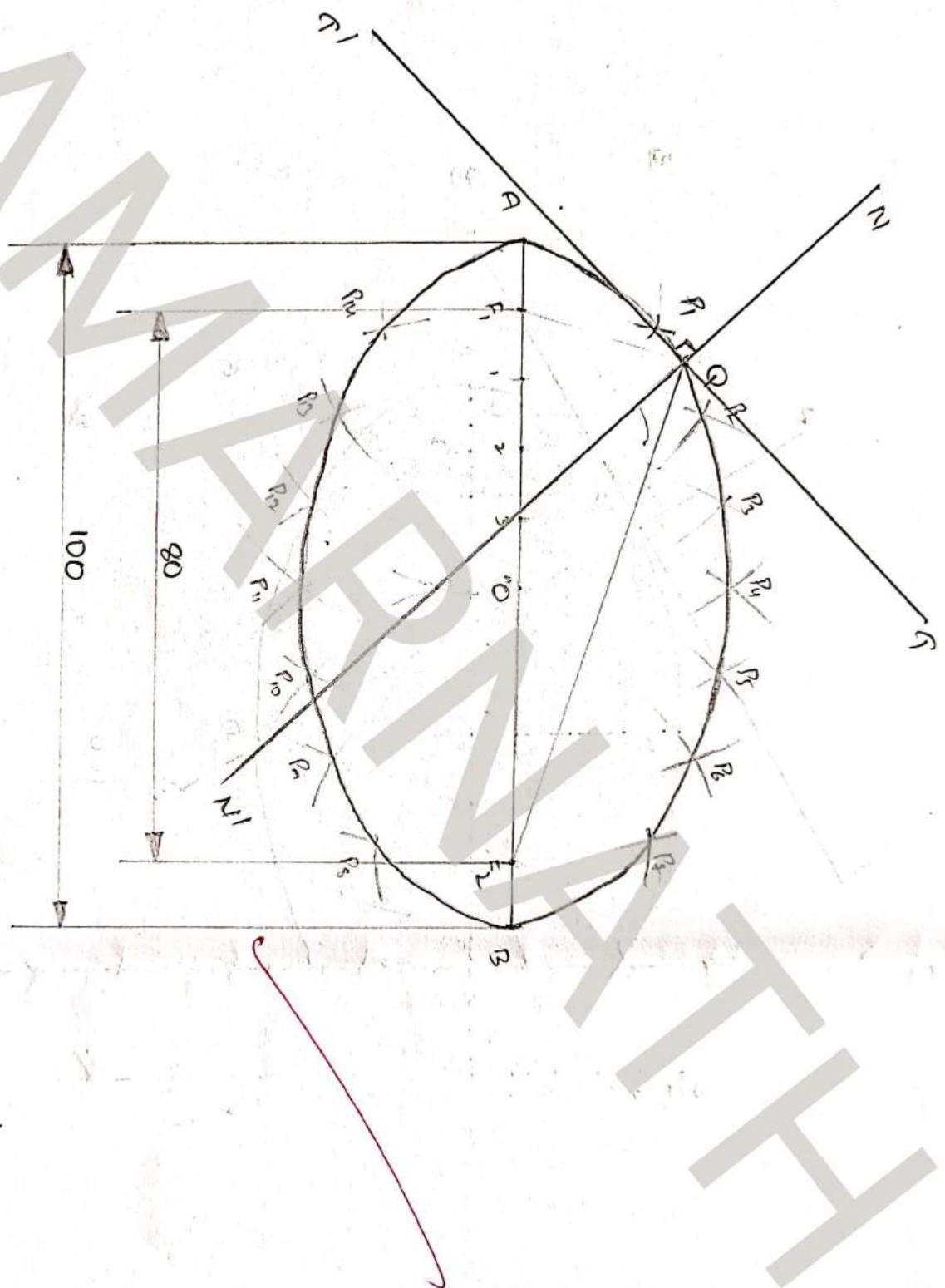
(6)



ELLIPSE BY PARALLELOGRAM METHOD

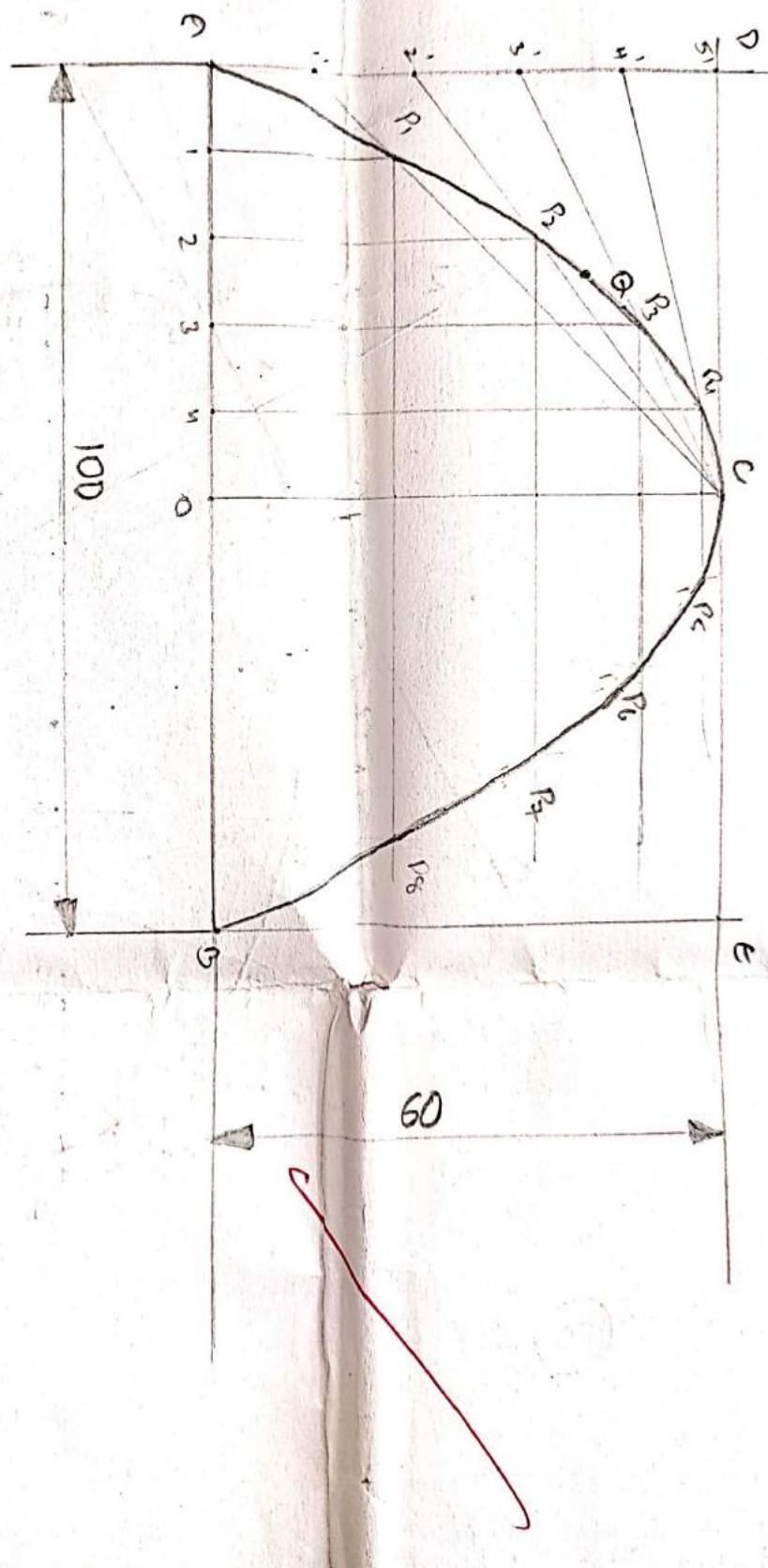
10
10
2009/09

ELLIPSE BY INTERSECTING ARC'S METHOD



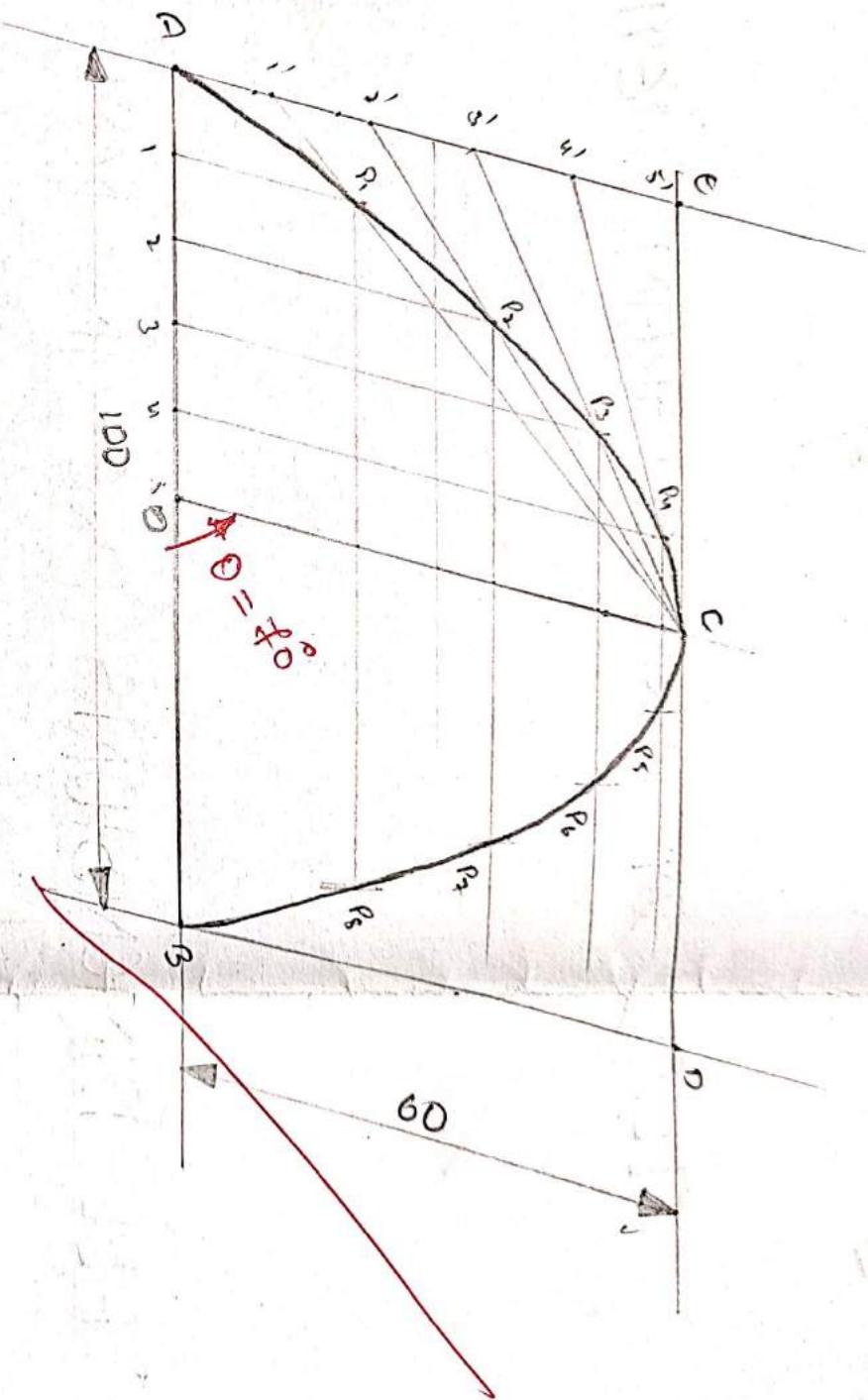
(2)

PARABOLA BY RECTANGLE OR OBLONG METHOD

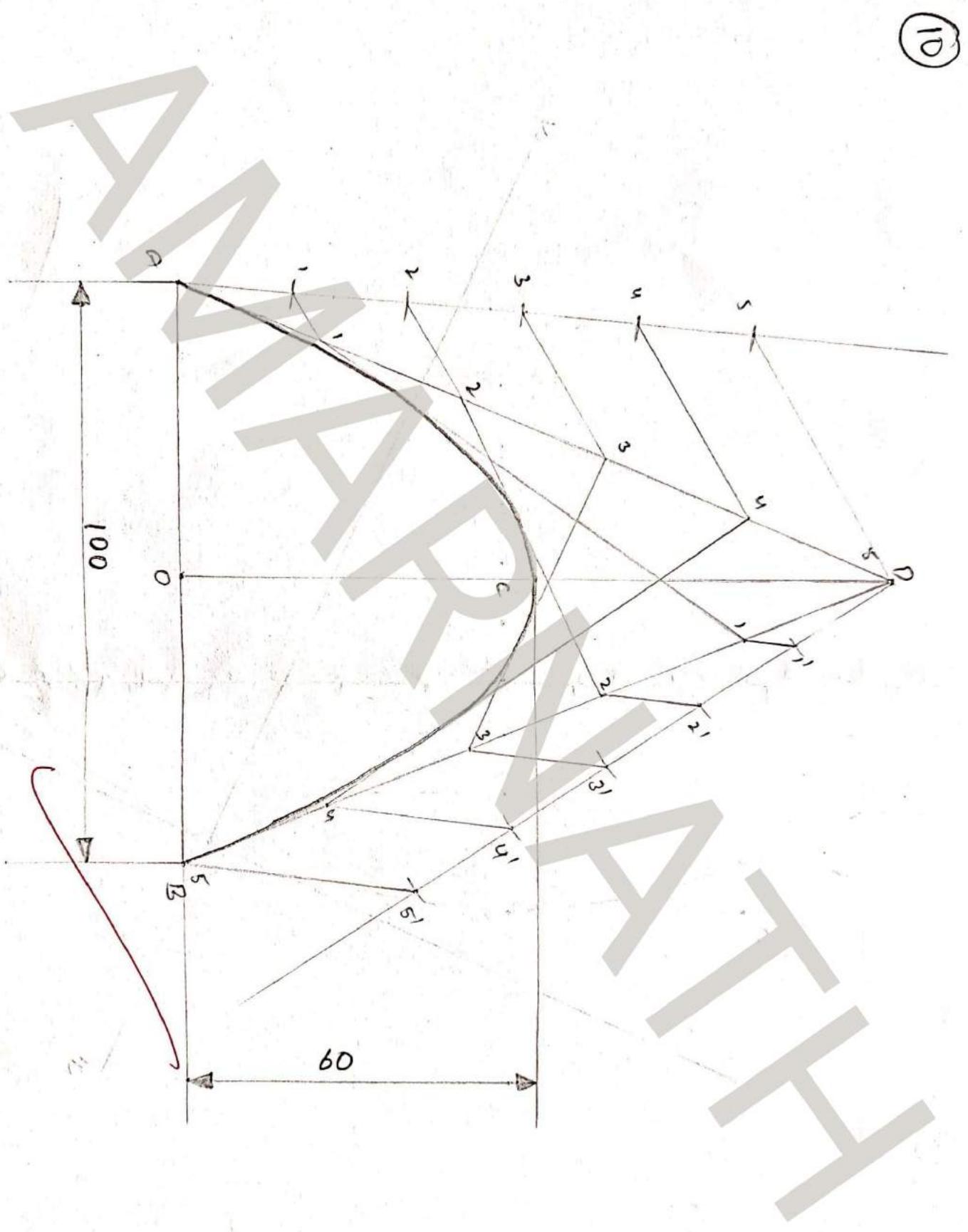


9

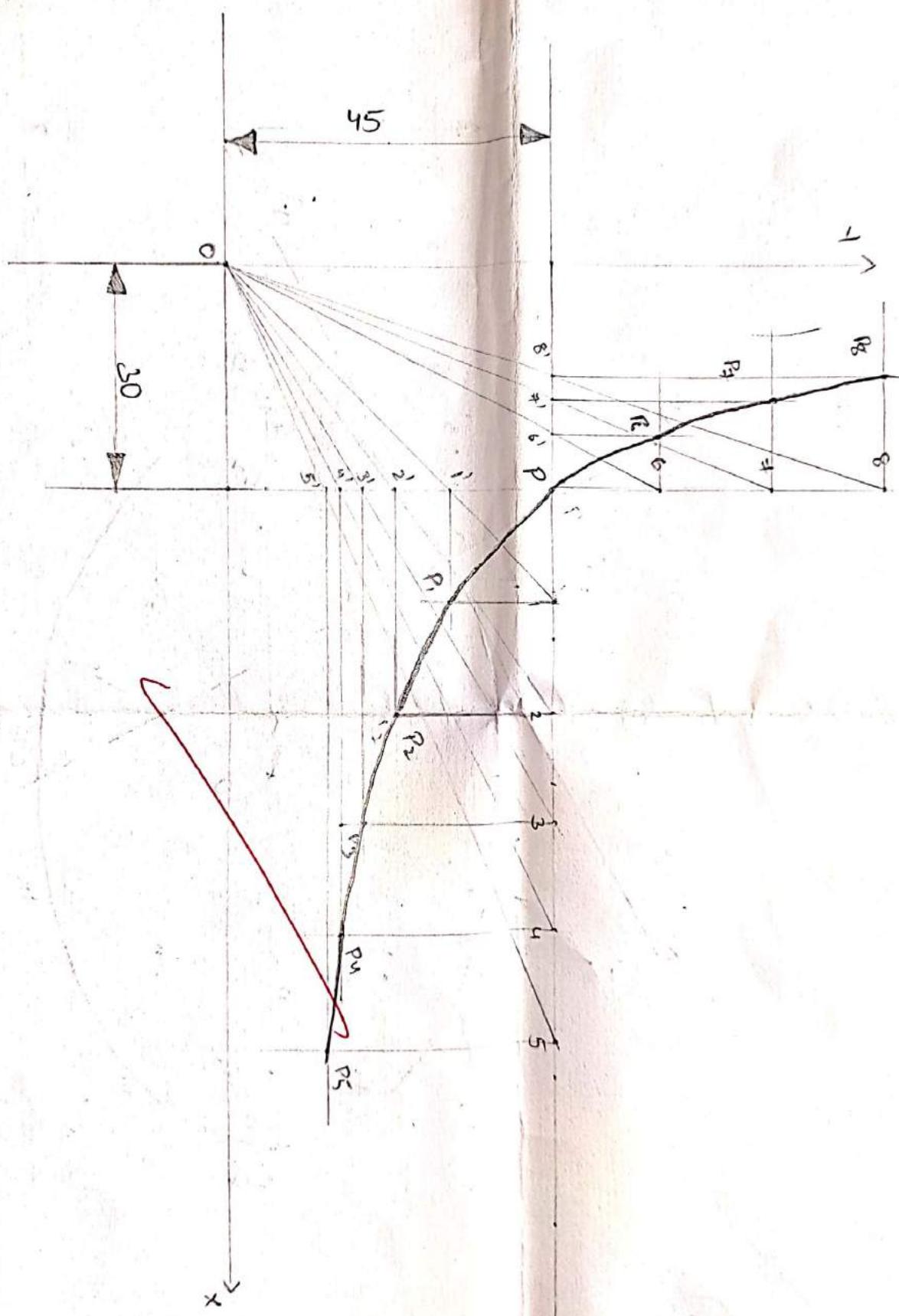
PARABOLA BY PARALLELOGRAM METHOD



PARABOLA BY TANGENT METHOD

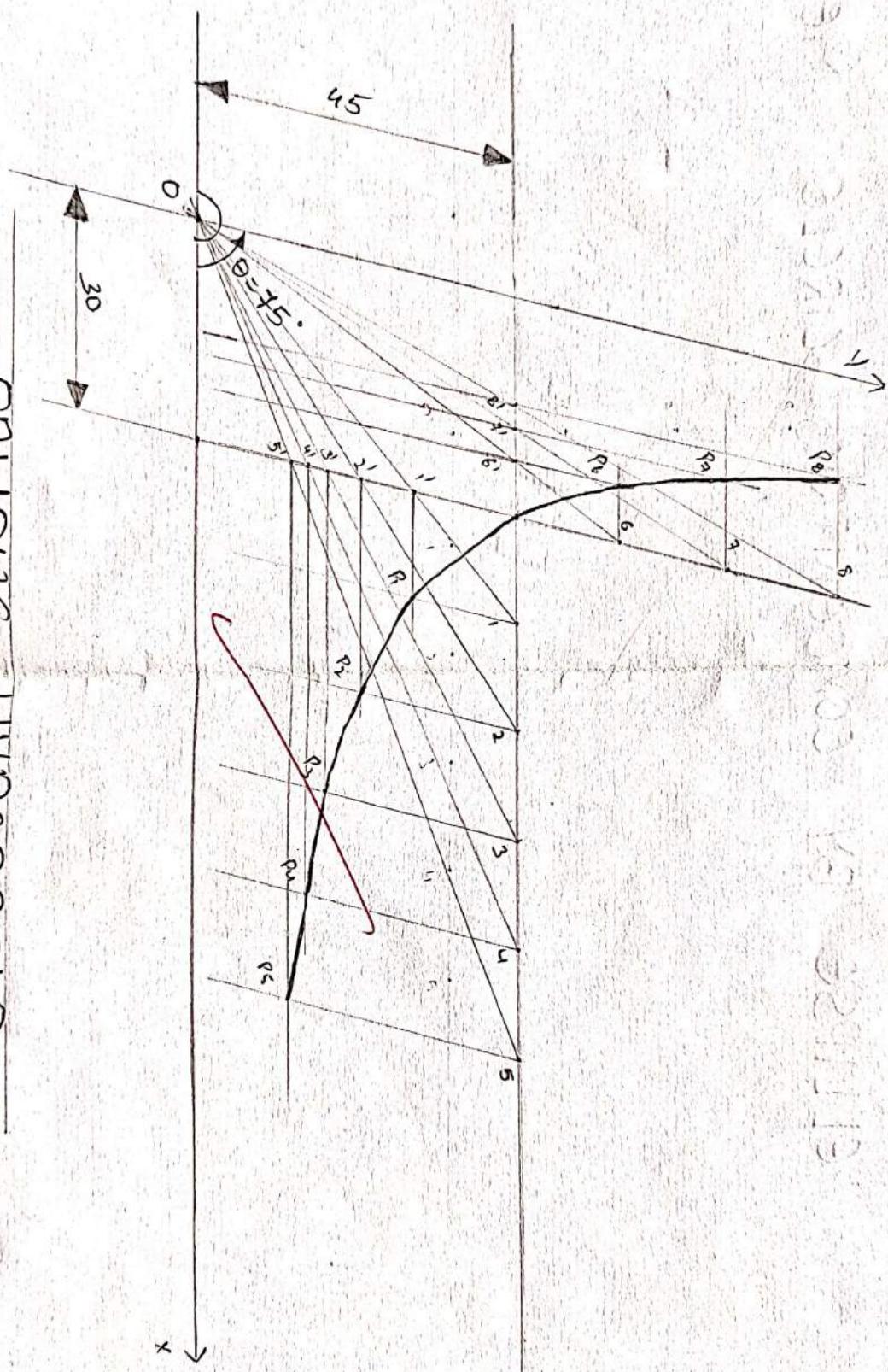


HYPERBOLA BY RECTANGLE METHOD



(11)

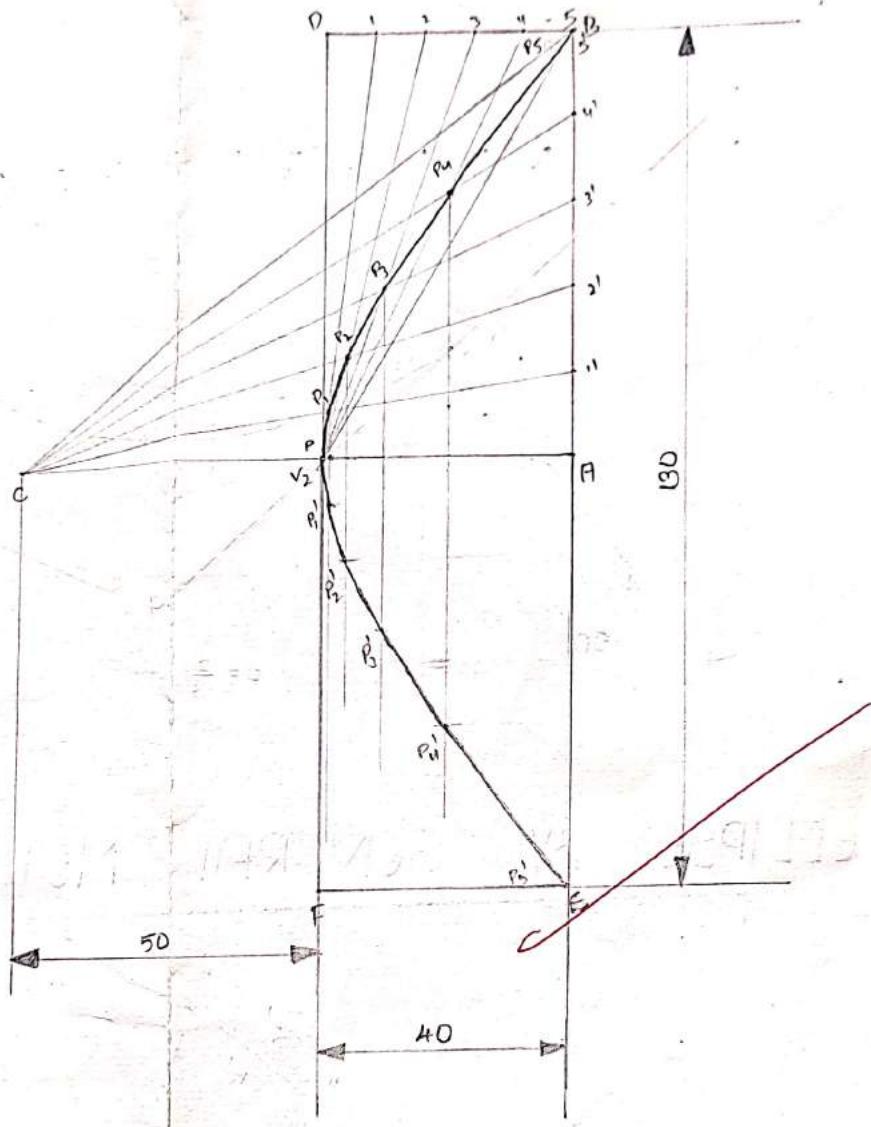
三



OBLIQUE HYPERBOLA

HYPERBOLA BY PARALLELOGRAM METHOD

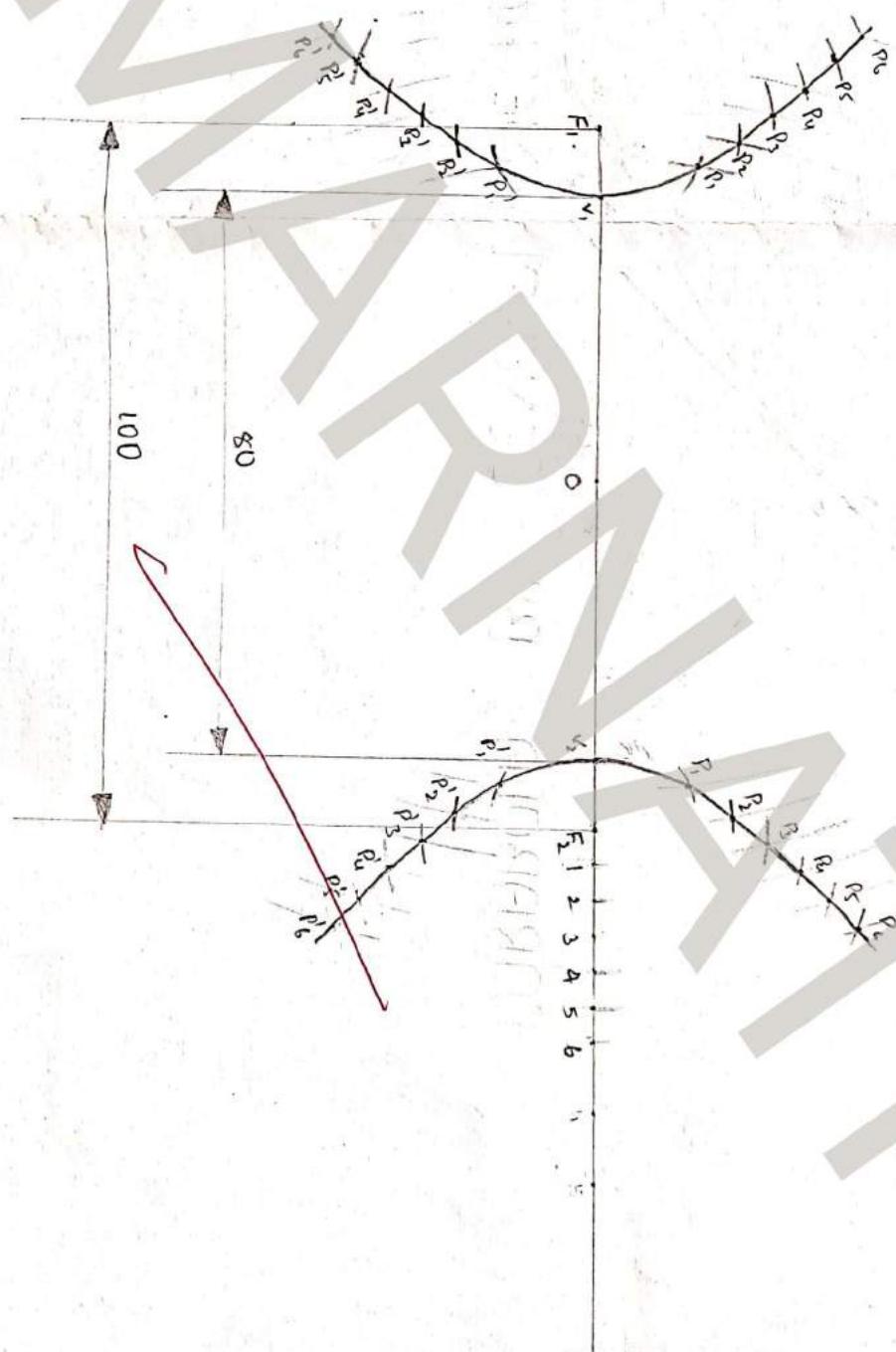
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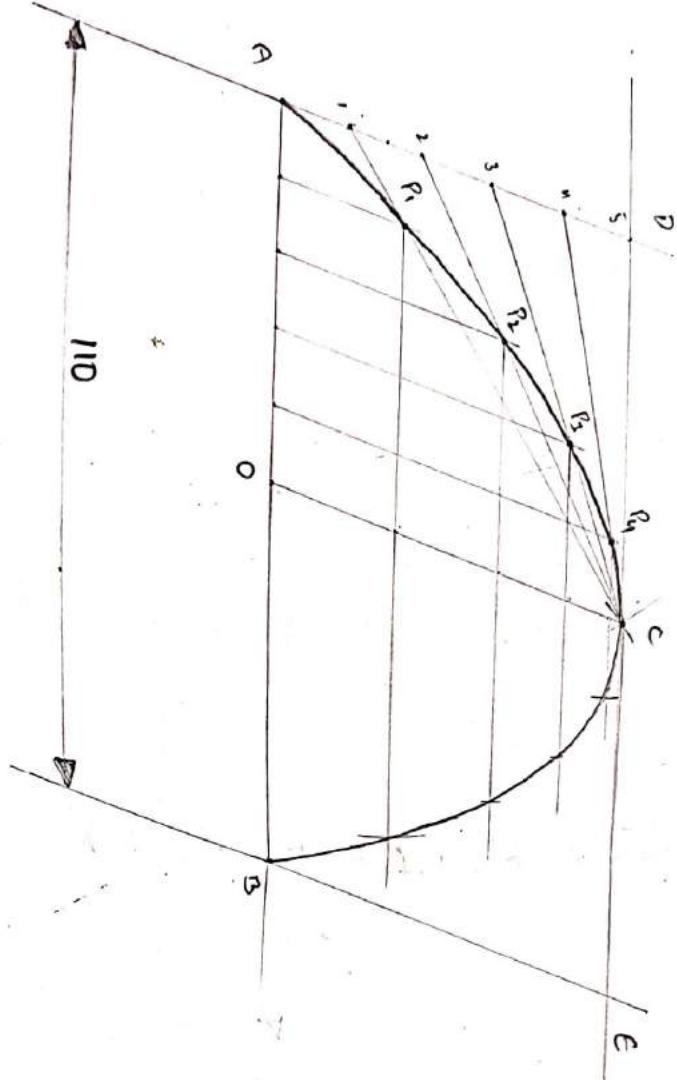
WHEN ABSISSA, HALF OF THE TRANSVERSE AXIS,
AND DOUBLE ORDINATE IS GIVEN,
THE HYPERBOLA IS AS ABOVE.

(14)

A) PAIR OF HYPERBOLA METHOD

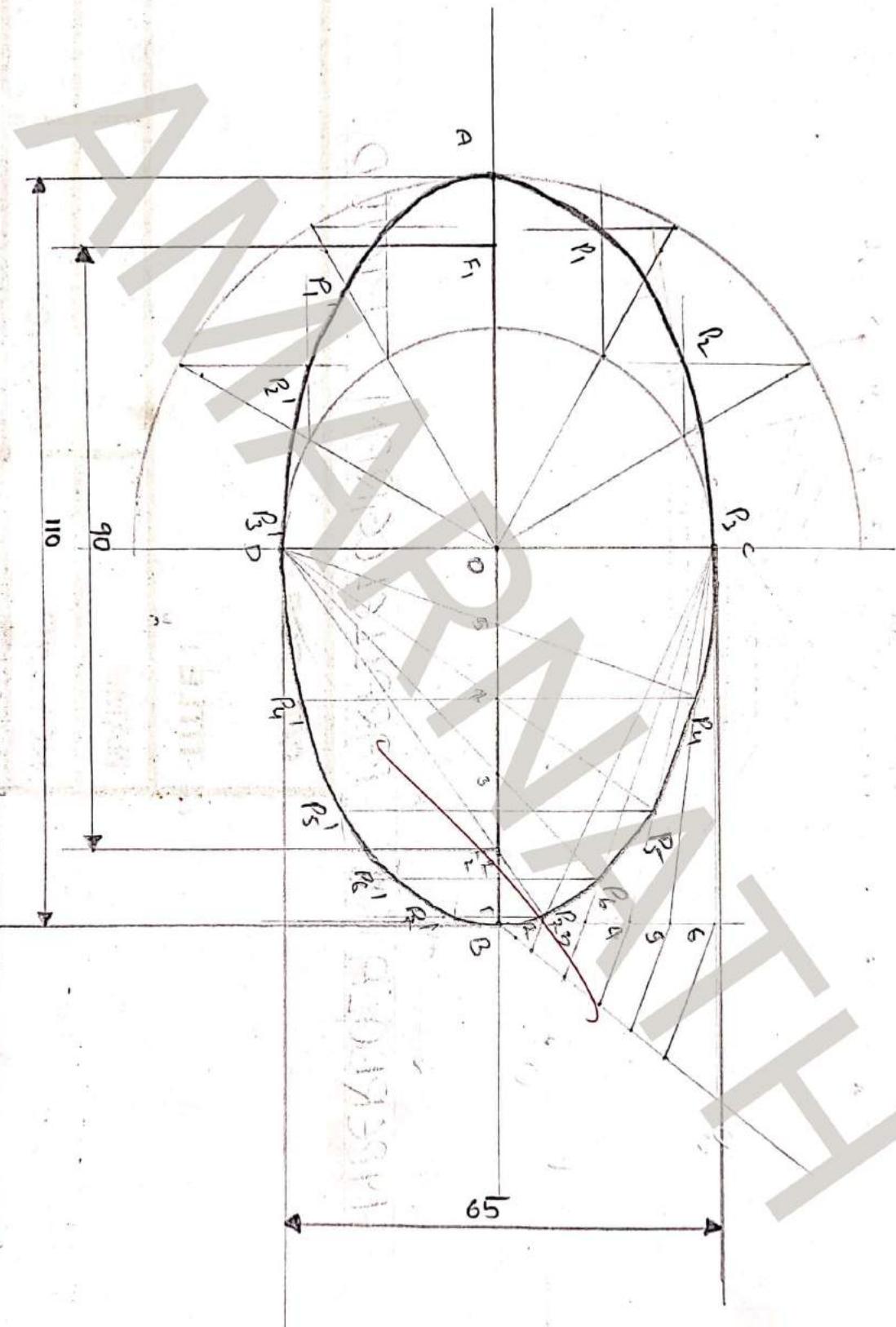


51



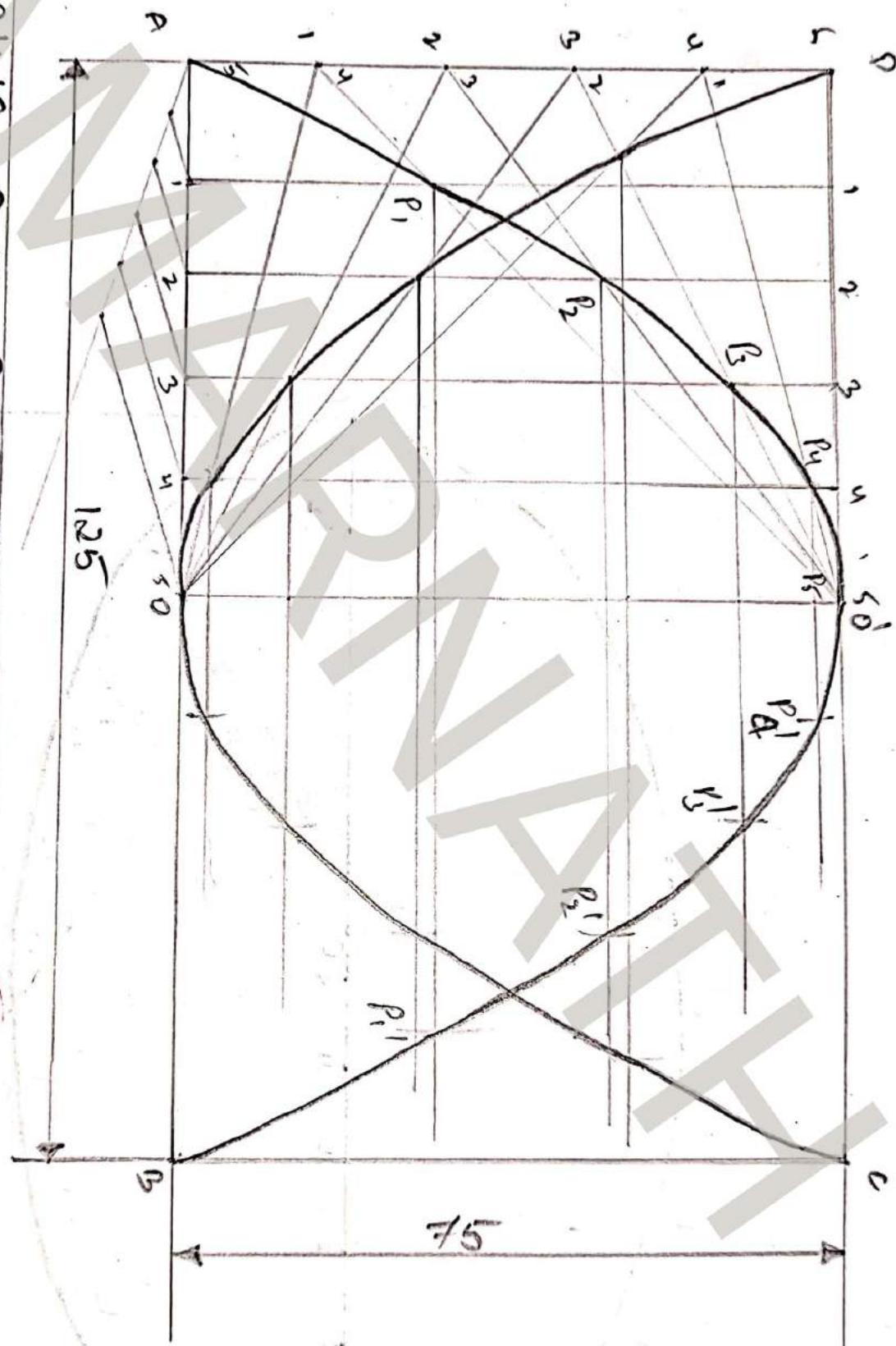
PARABOLA, WHEN THREE POINTS ARE GIVEN

5

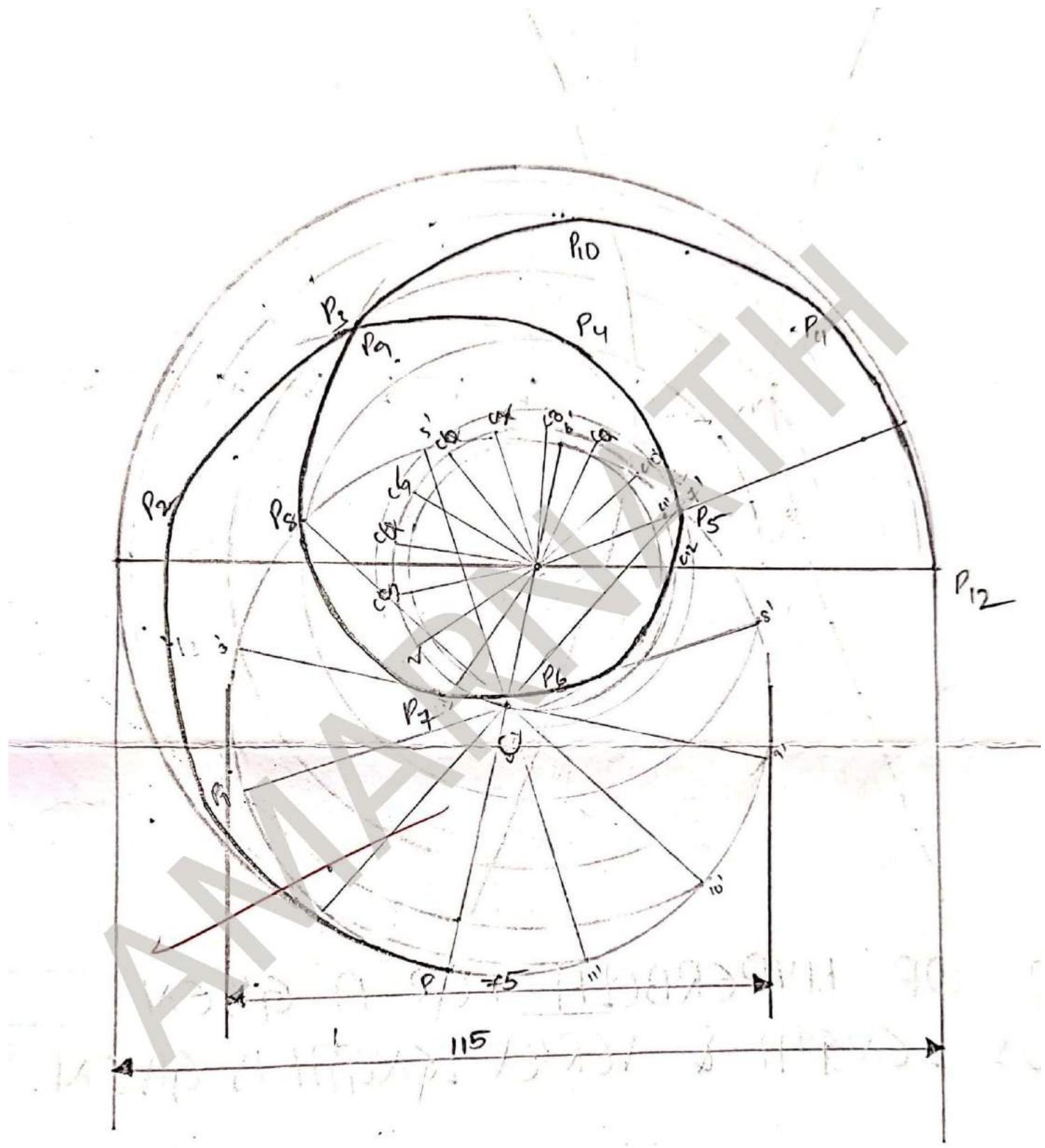


HALF PART OF ELLIPSE BY CONCENTRIC CIRCLES & OTHER BY OBLONG METHOD

Q

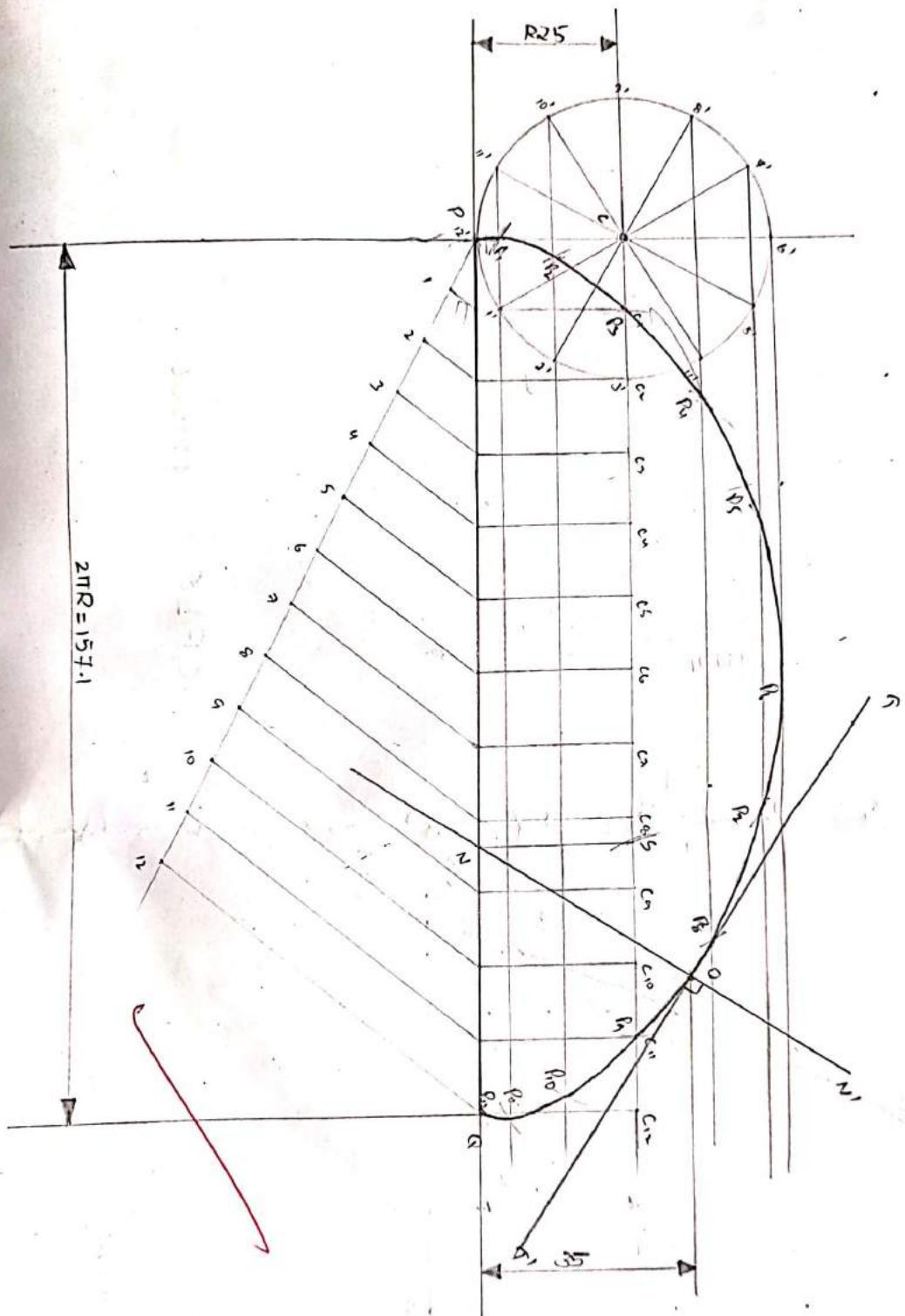


INSCRIBING TWO PARABOLAS IN RECTANGLE
WITH ITS AXIS BISECTING EACH OTHER.



HYPOTHYPO CYCLOID.

(4)



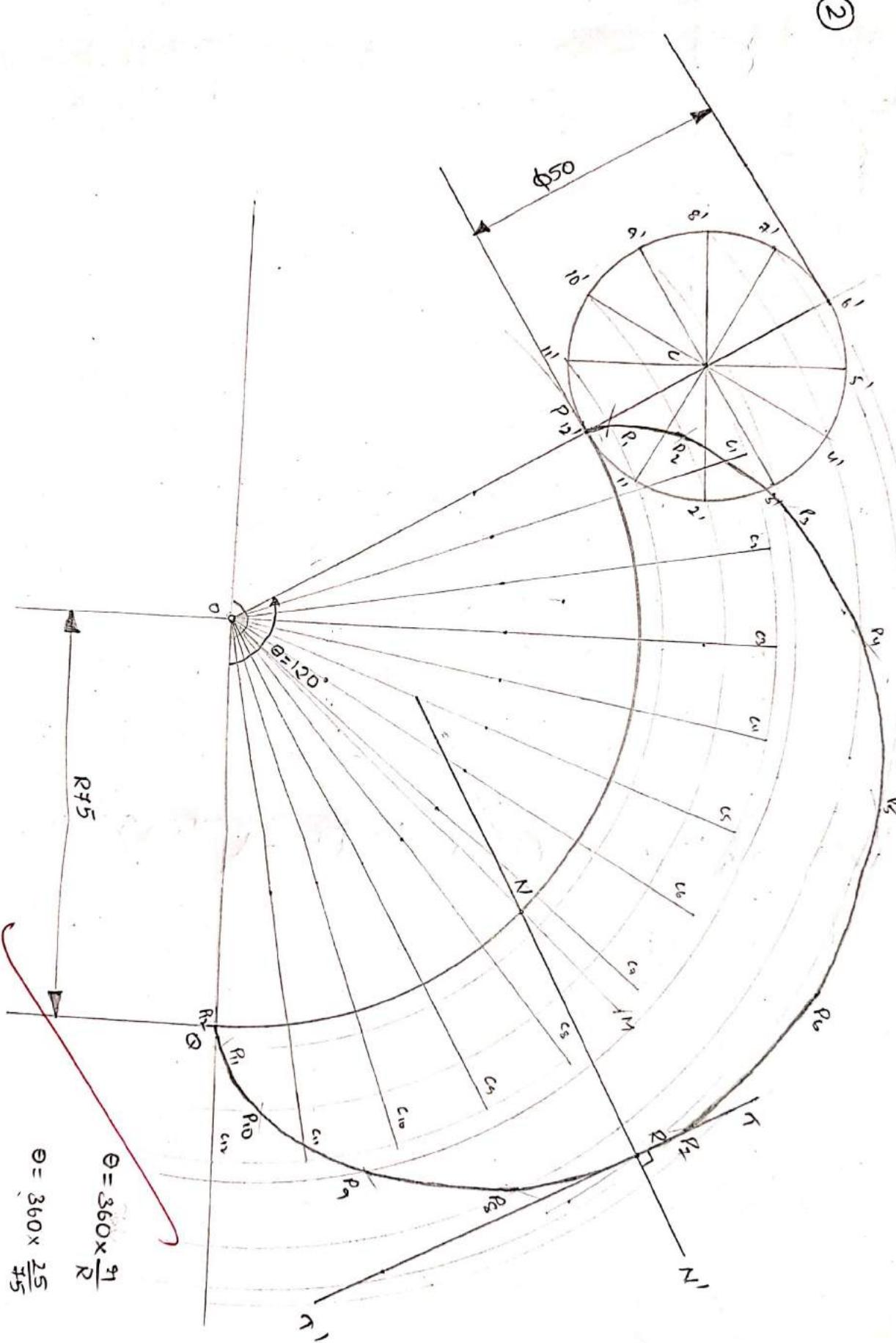
CYCLOIDAL CURVE

EP CYCLOID

$\Theta = 120^\circ$

$$\Theta = 360 \times \frac{25}{45}$$

$$R = 45$$



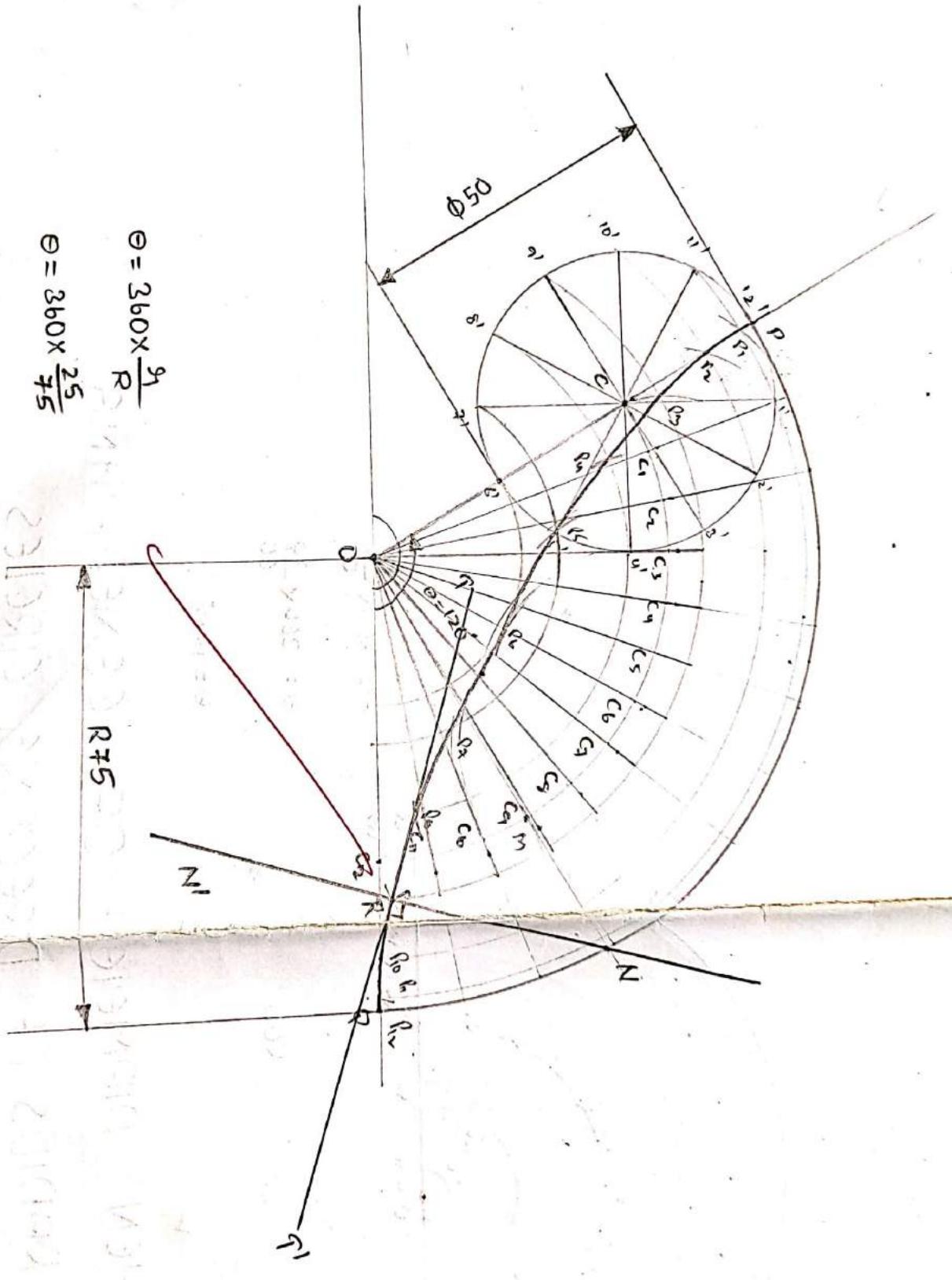
2

HYPO CYCLOID

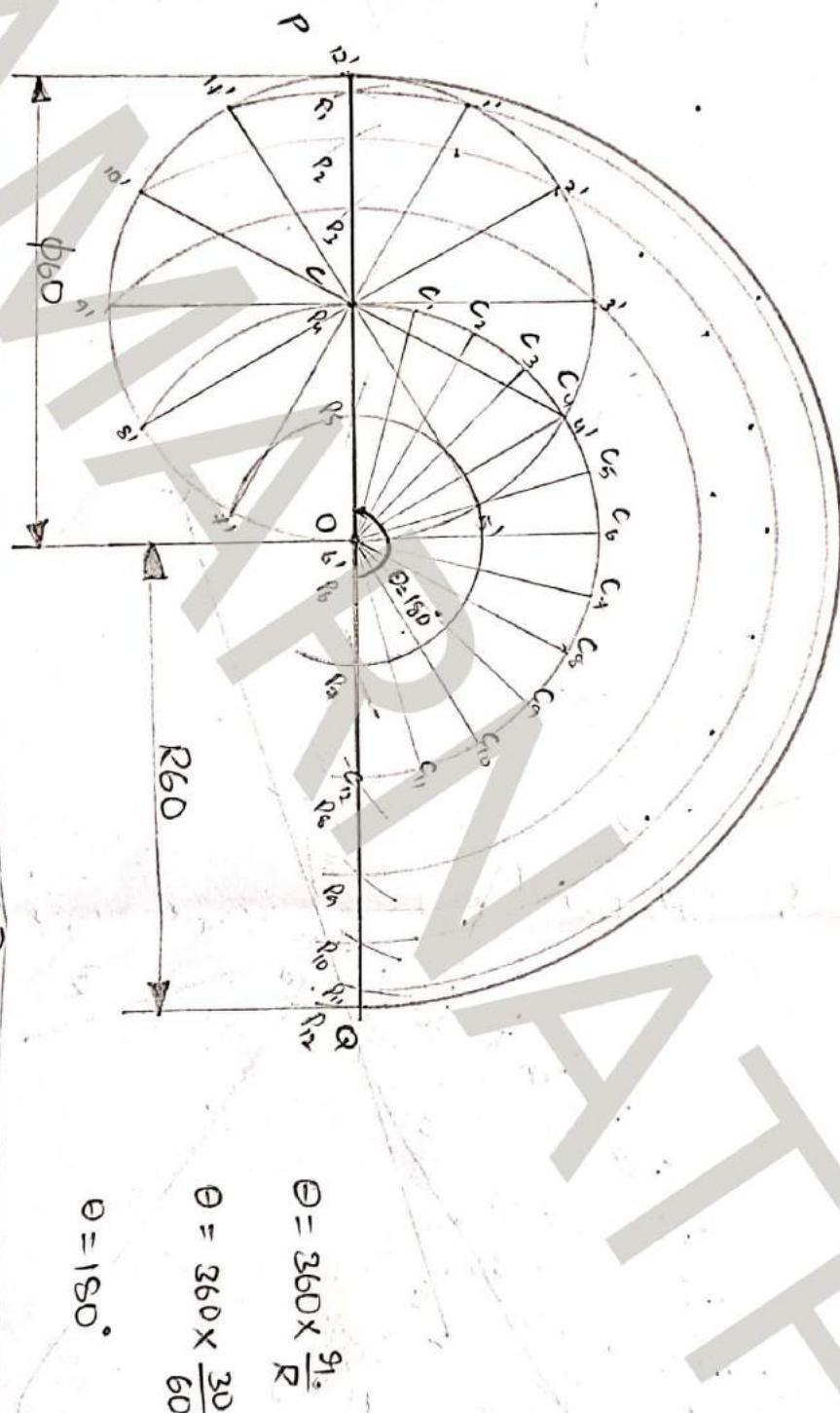
$$\theta = 120^\circ$$

$$\theta = 360 \times \frac{91}{R}$$

$$\theta = 360 \times \frac{25}{75}$$



(4)



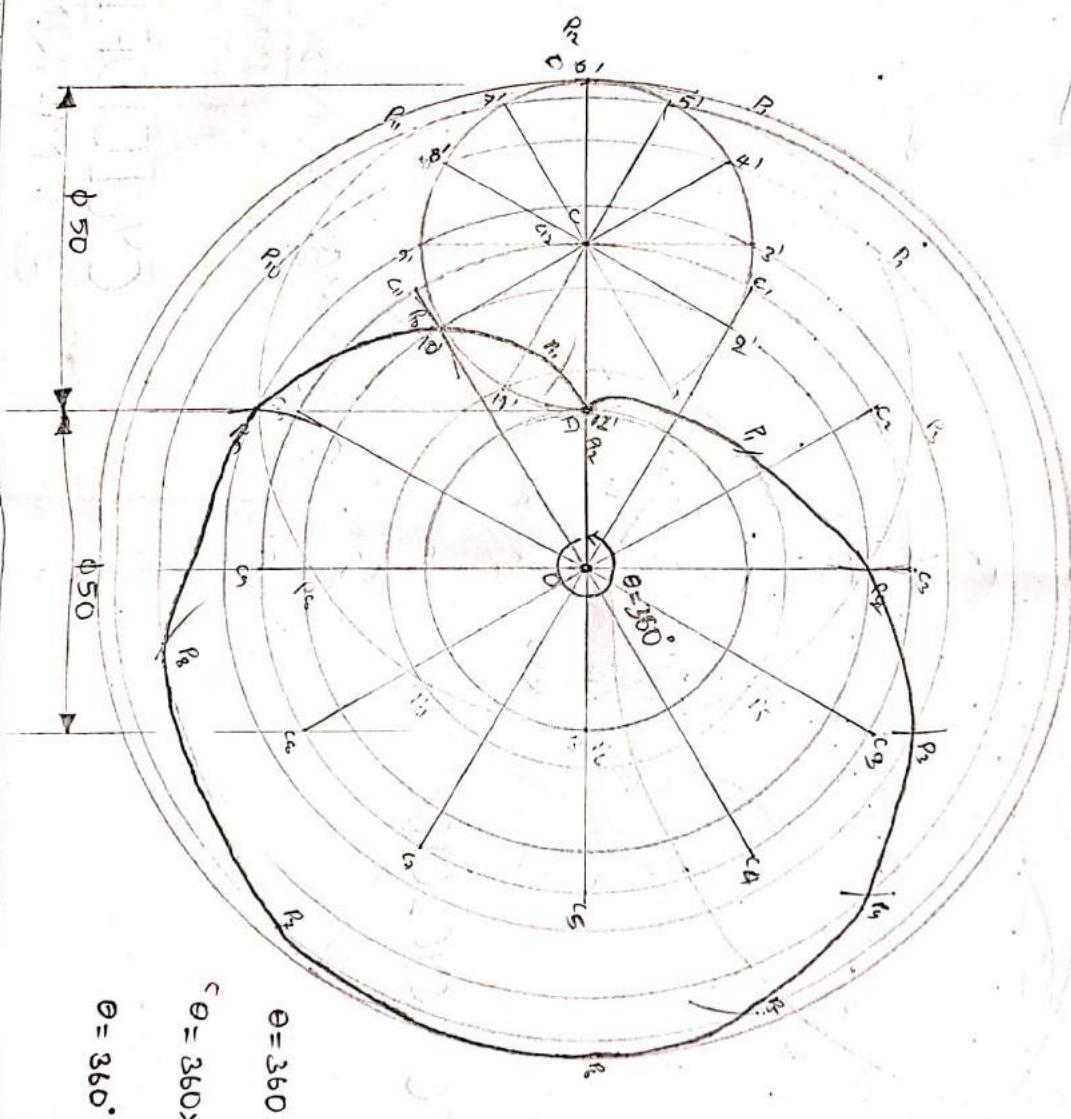
$$\theta = 180^\circ$$

$$\theta = 360 \times \frac{30}{60}$$

HYPOCYCLOID WHEN DIAMETER OF GENERATING CIRCLE AND RADIUS OF DIRECTING CIRCLE ARE SAME.

CIRCLE AND RADIUS OF DIRECTING CIRCLES

(5)



$$\theta = 360 \times \frac{n}{R}$$

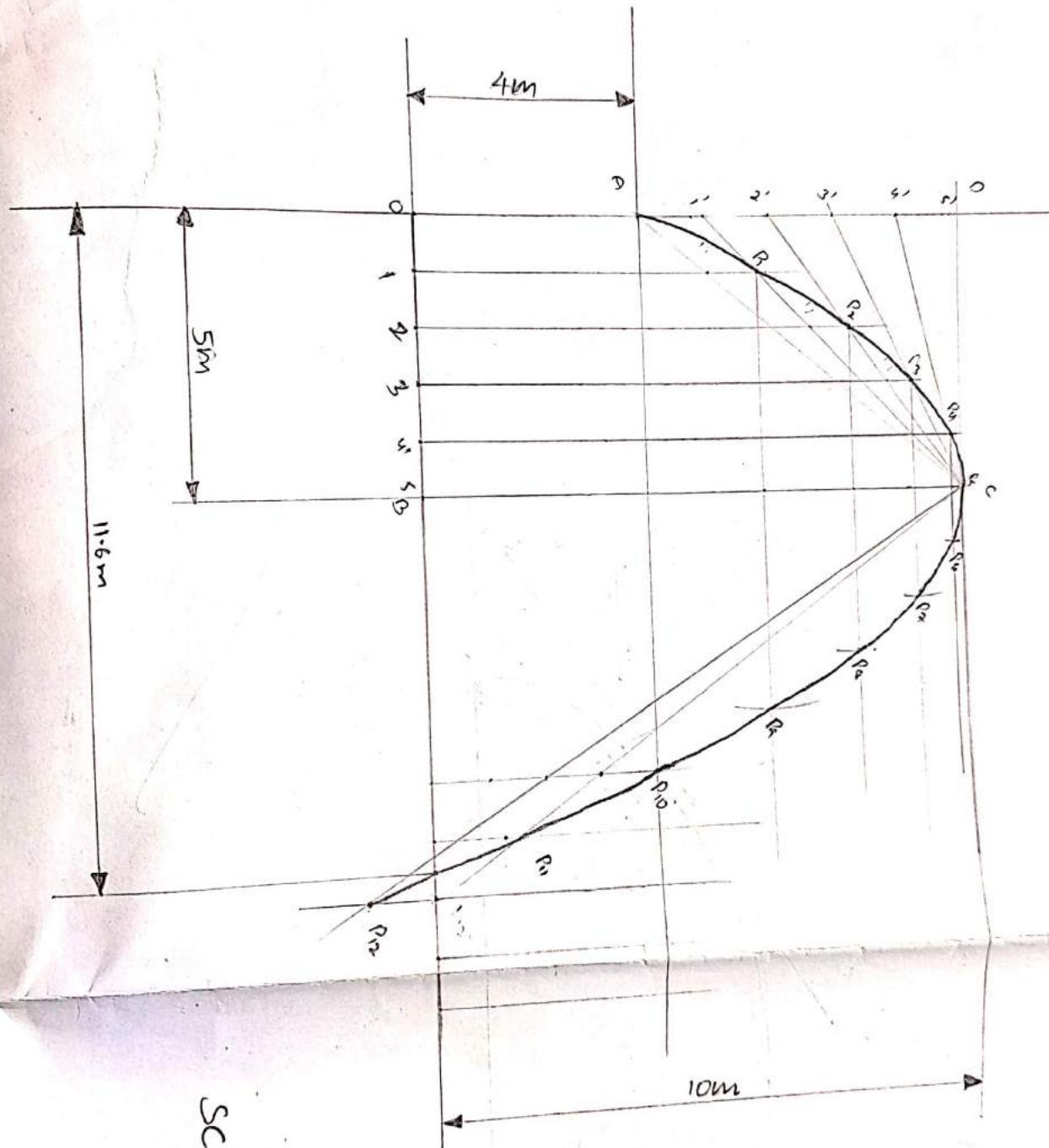
$$\theta = 360 \times \frac{25}{25}$$

$$\theta = 360^\circ$$

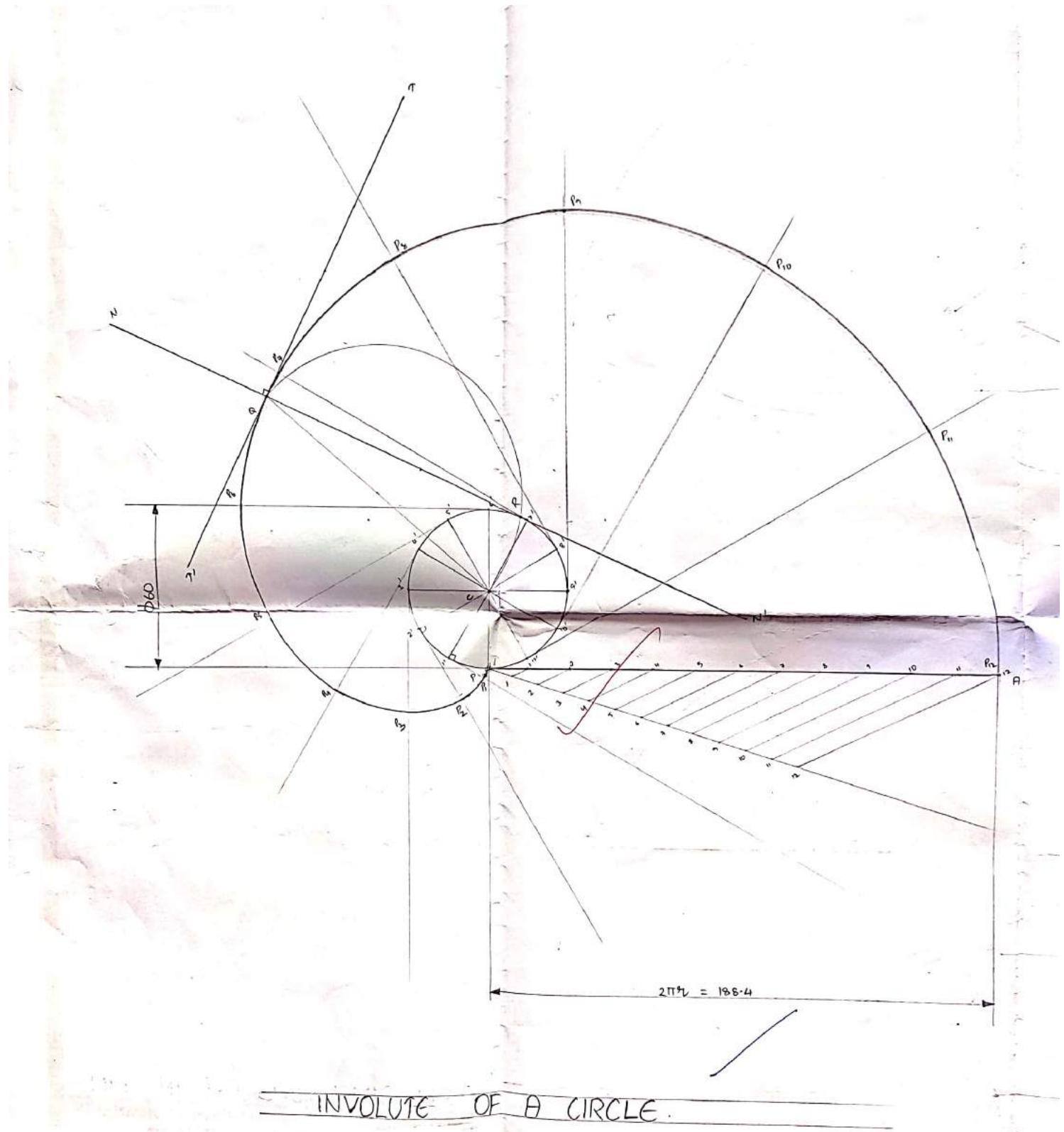
EPI CYCLOID WHEN DIAMETER OF GENERATING CIRCLE &
DIRECTING CIRCLES ARE SAME.

(5)

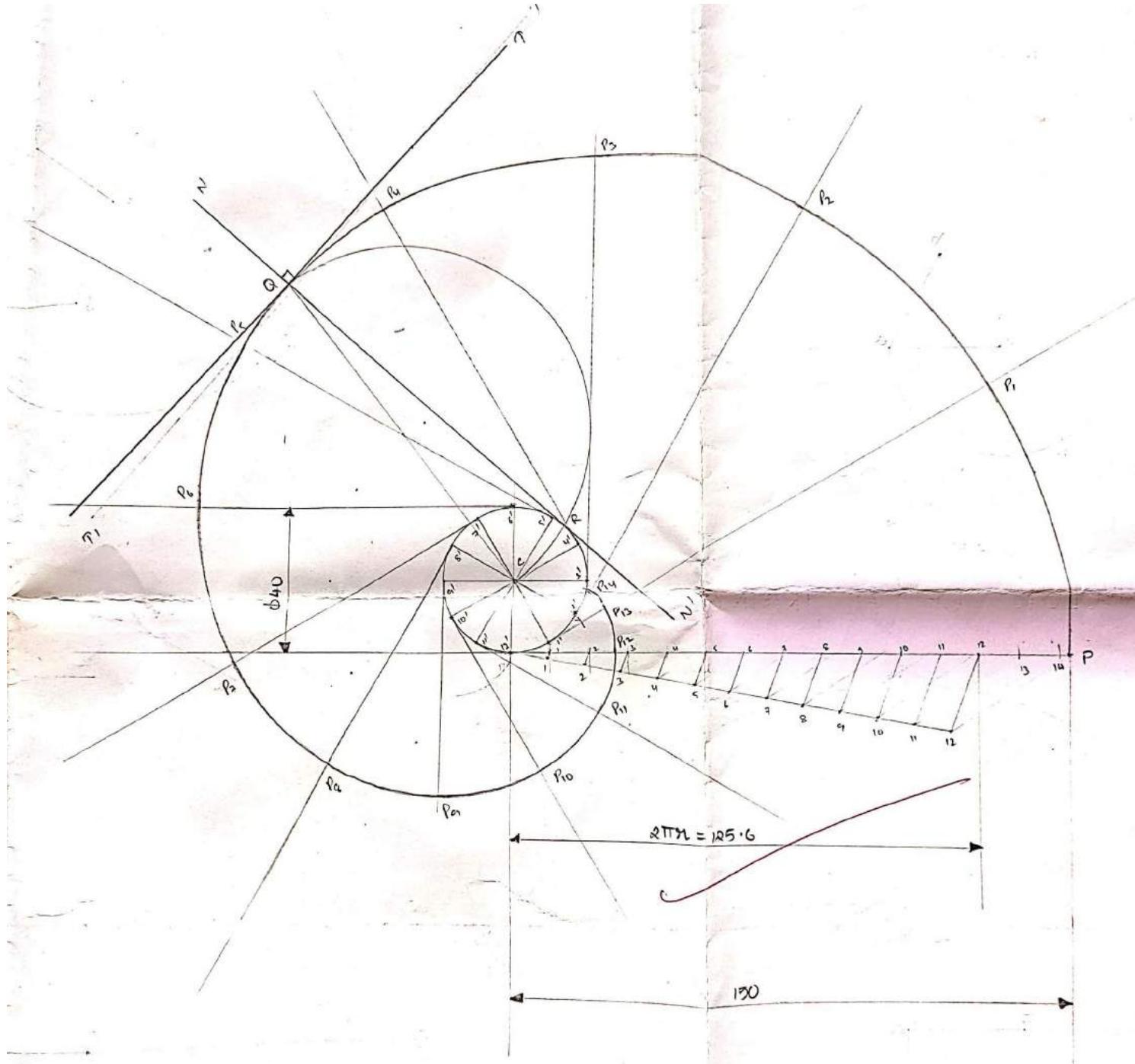
RECTANGULAR PARABOLA



SCALE :- 1:1000



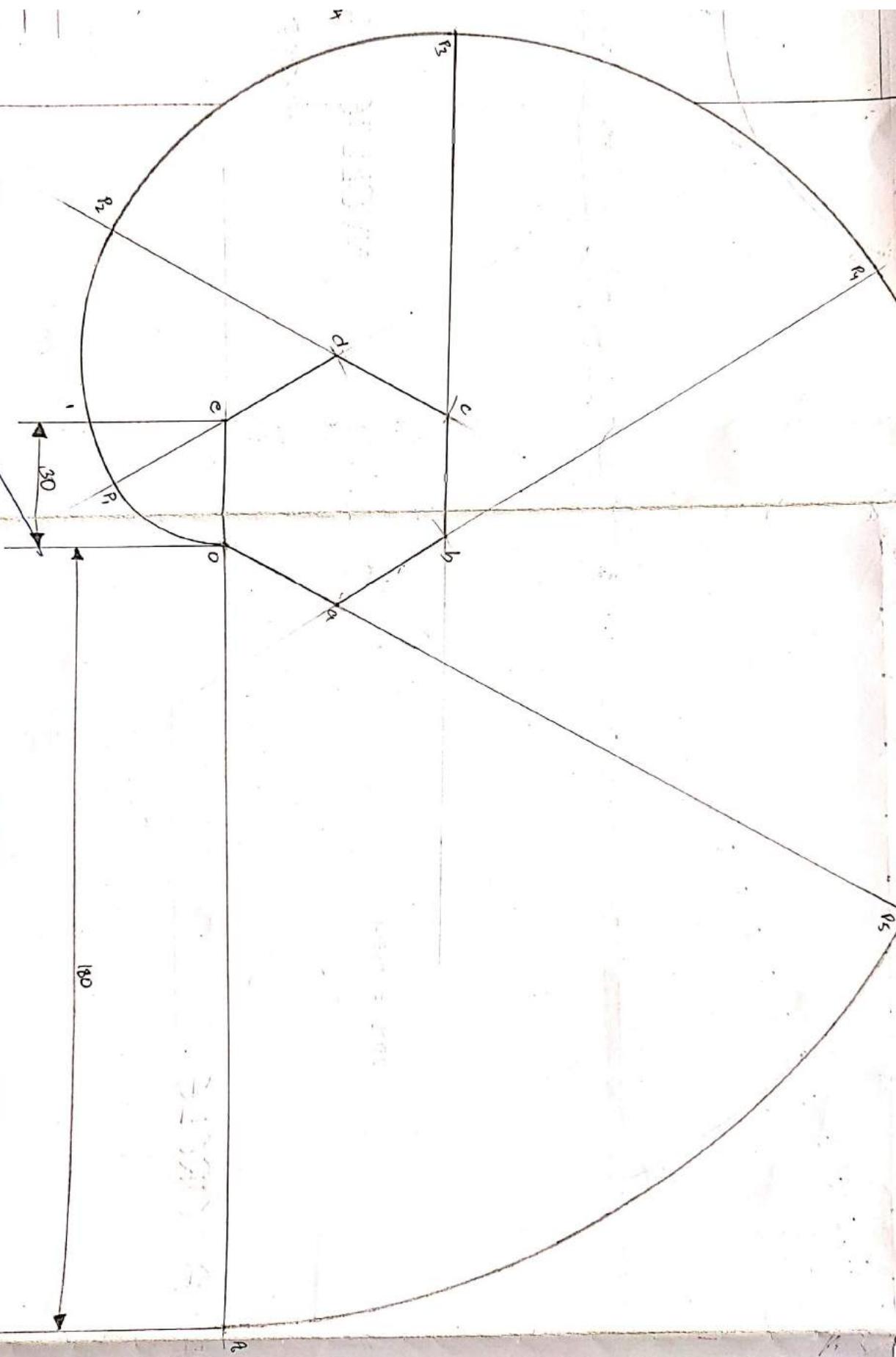
INVOLUTE OF A CIRCLE.



INVOLUTE , WHEN THE LENGTH OF THE THREAD IS GIVEN.

INVOLUTE

OF A PENTAGON



INVOLUTE
OF A HEXAGON.

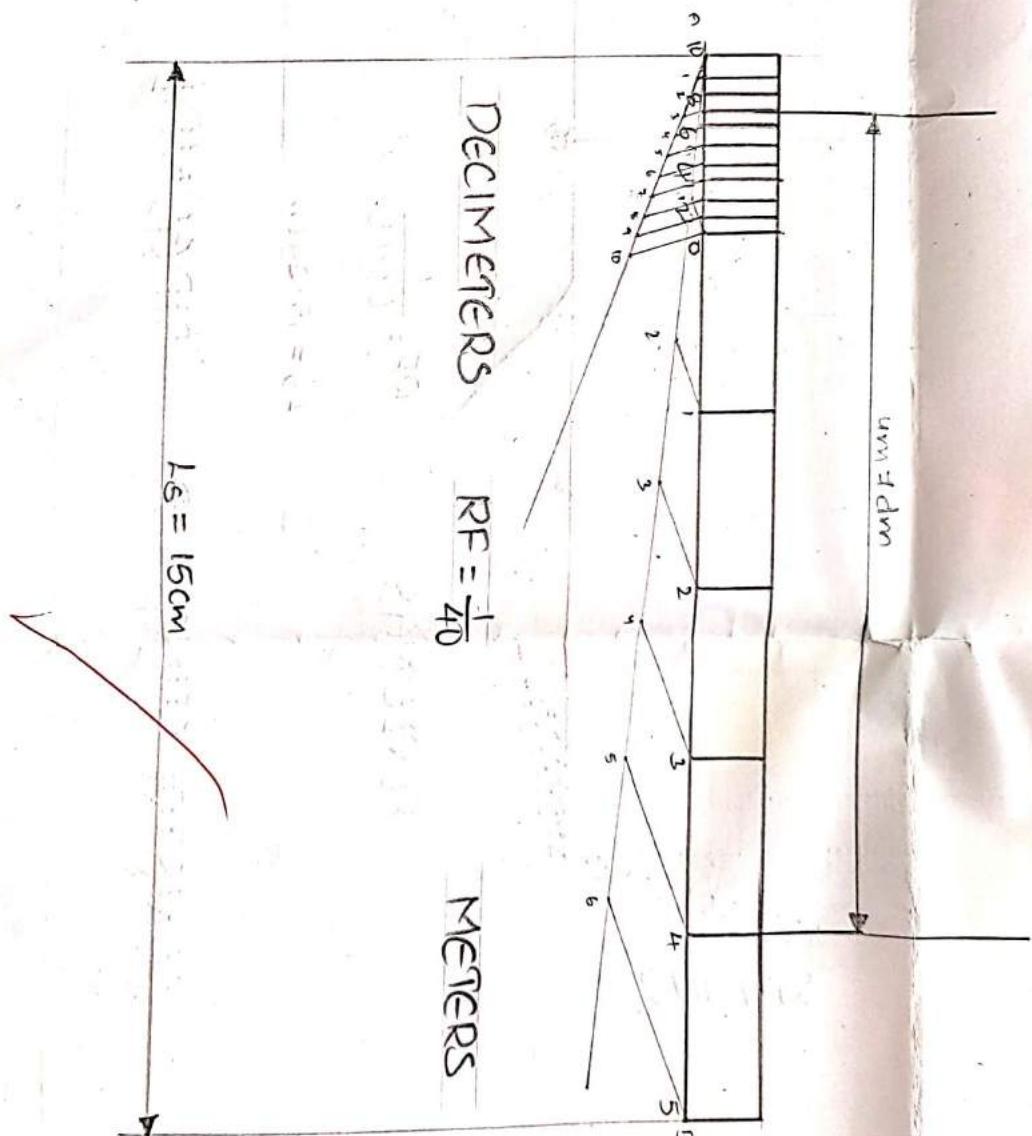
METRIC STANDARD UNITS

<u>1 KILOMETER</u> (KM)	=	10 HECTAMETERS (HM)
<u>1 HECTAMETER</u> (HM)	=	10 DECAMETERS (DM)
<u>1 DECAMETER</u> (DM)	=	10 METERS (m)
<u>1 METER</u> (m)	=	10 decimeters (dm)
<u>1 decimeter</u> (dm)	=	10 centimeters (cm)
<u>1 centimeter</u> (cm)	=	10 millimeters (mm)

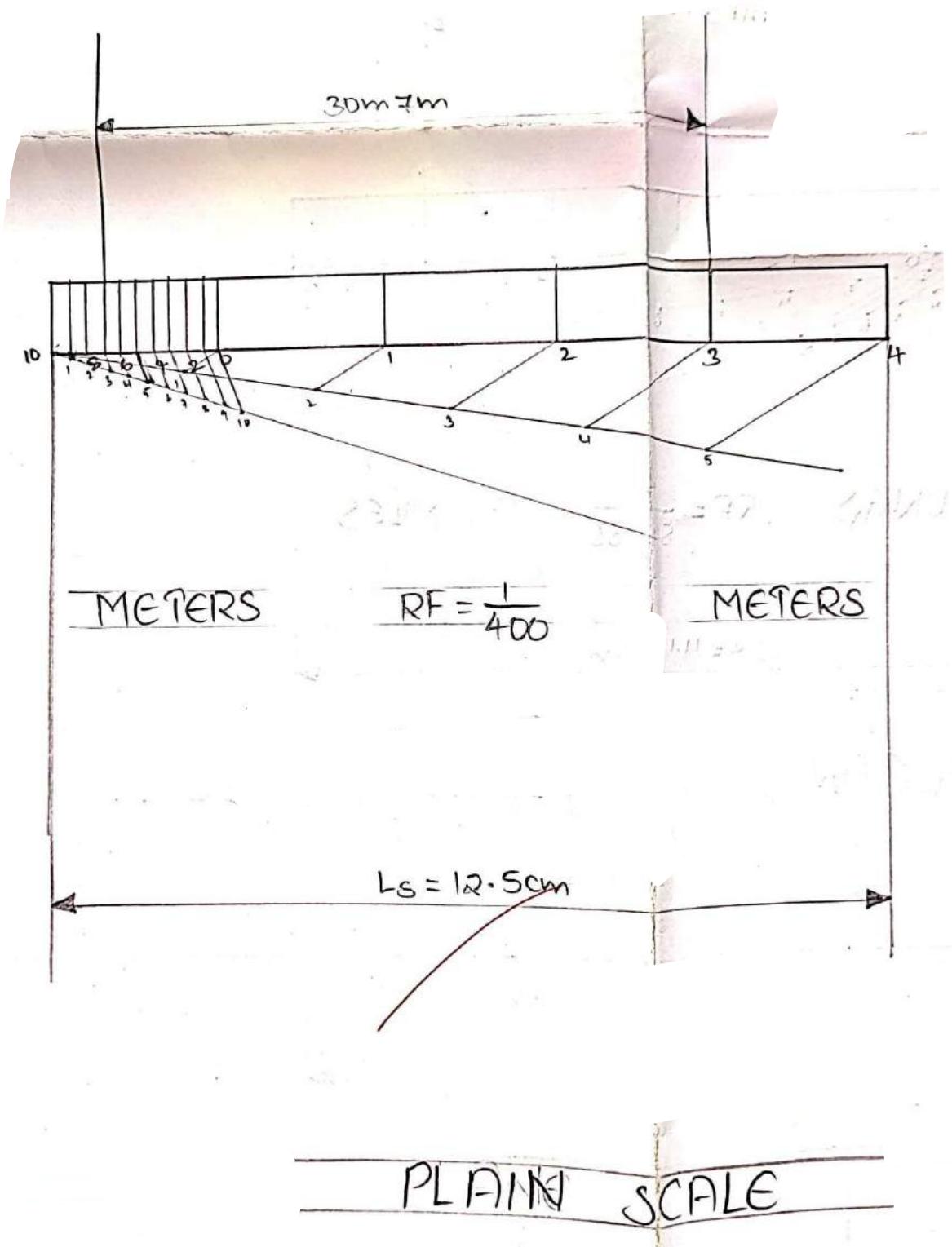
BRITISH STANDARD UNITS

<u>1 League</u> (ly)	=	3 miles (mi)
<u>1 Mile</u> (mi)	=	8 furlongs (fum)
<u>1 furlong</u> (fum)	=	10 chains (ch)
<u>1 chain</u> (ch)	=	22 yards (yd)
<u>1 yard</u> (yd)	=	3 feet (ft)
<u>1 foot</u> (ft)	=	12 inches (in)

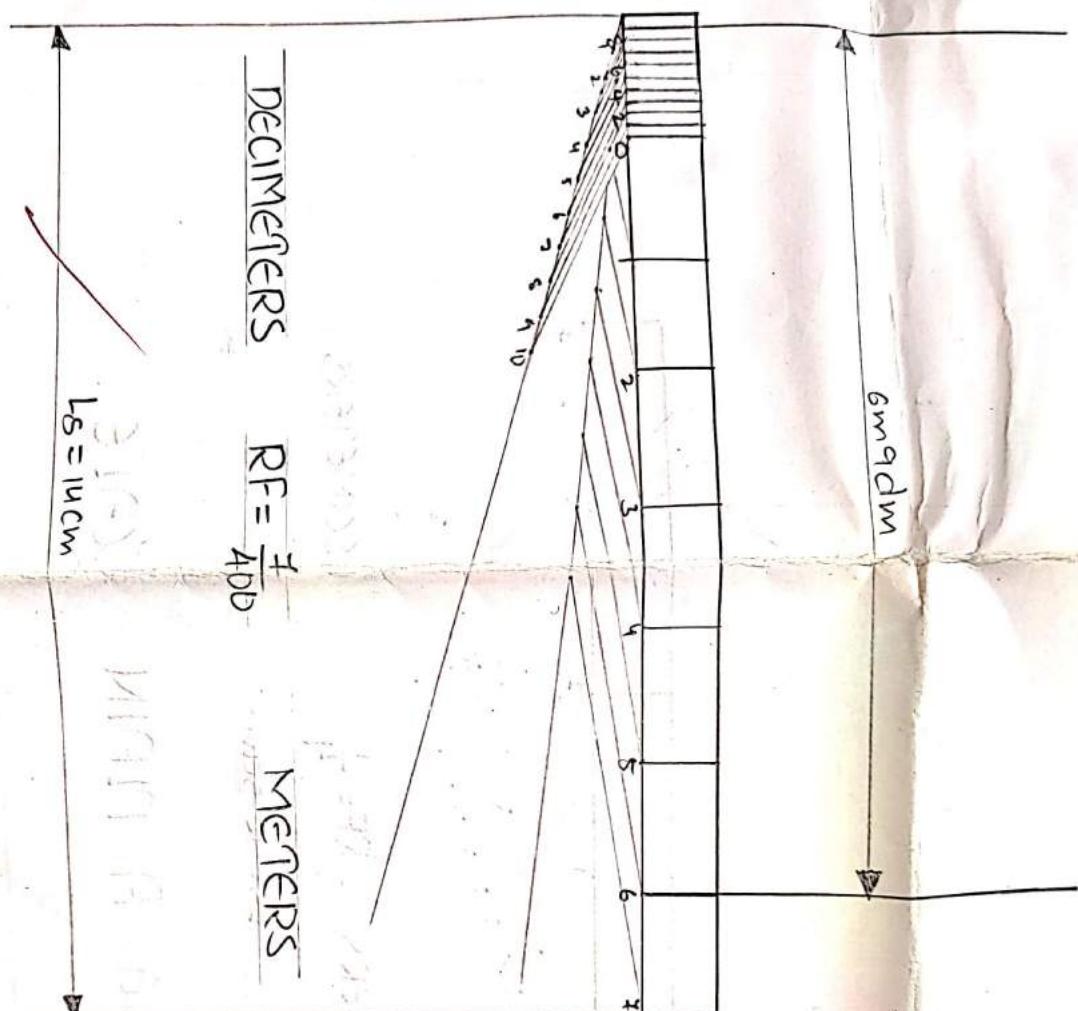
CONSTRUCTING A PLAIN SCALE



②

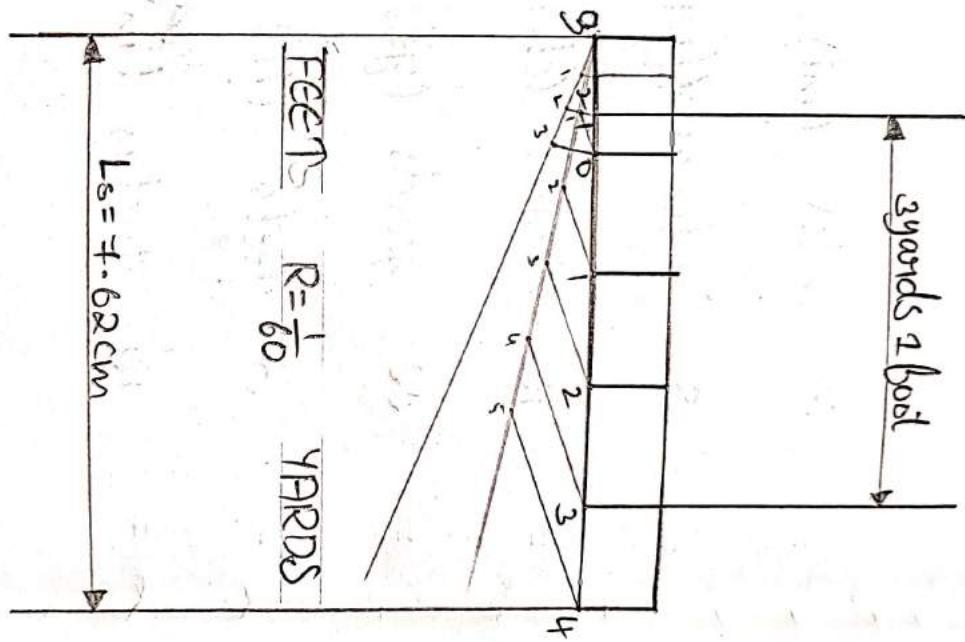


PLAIN SCALE

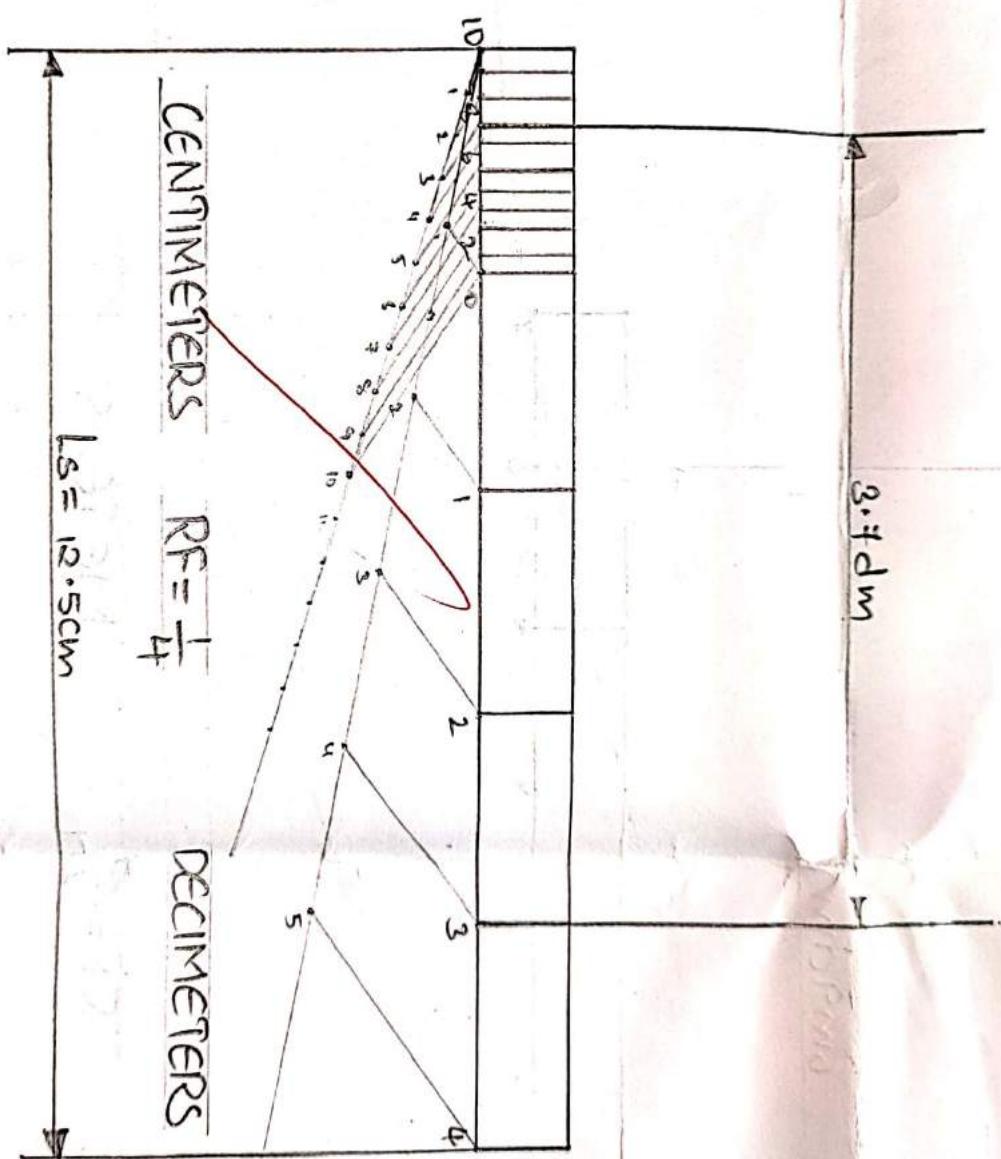


(3)

CONSTRUCTING A PLAIN SCALE

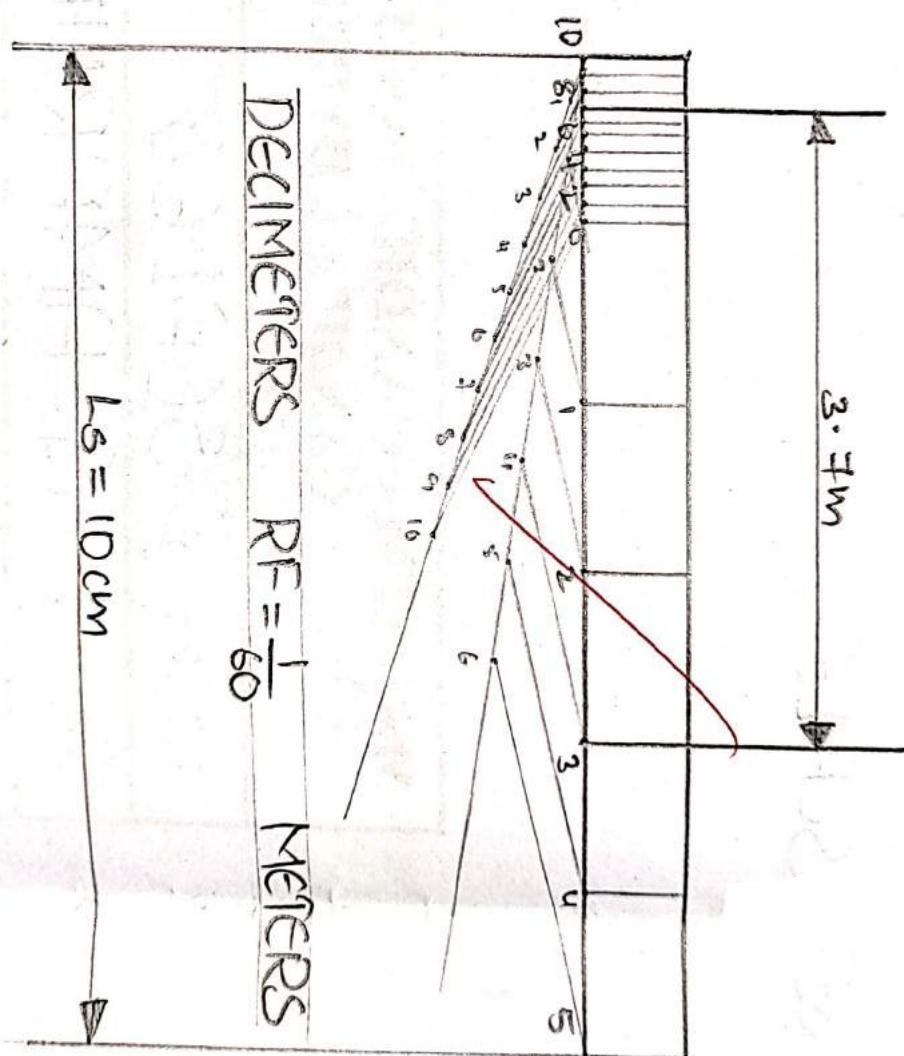


(5)



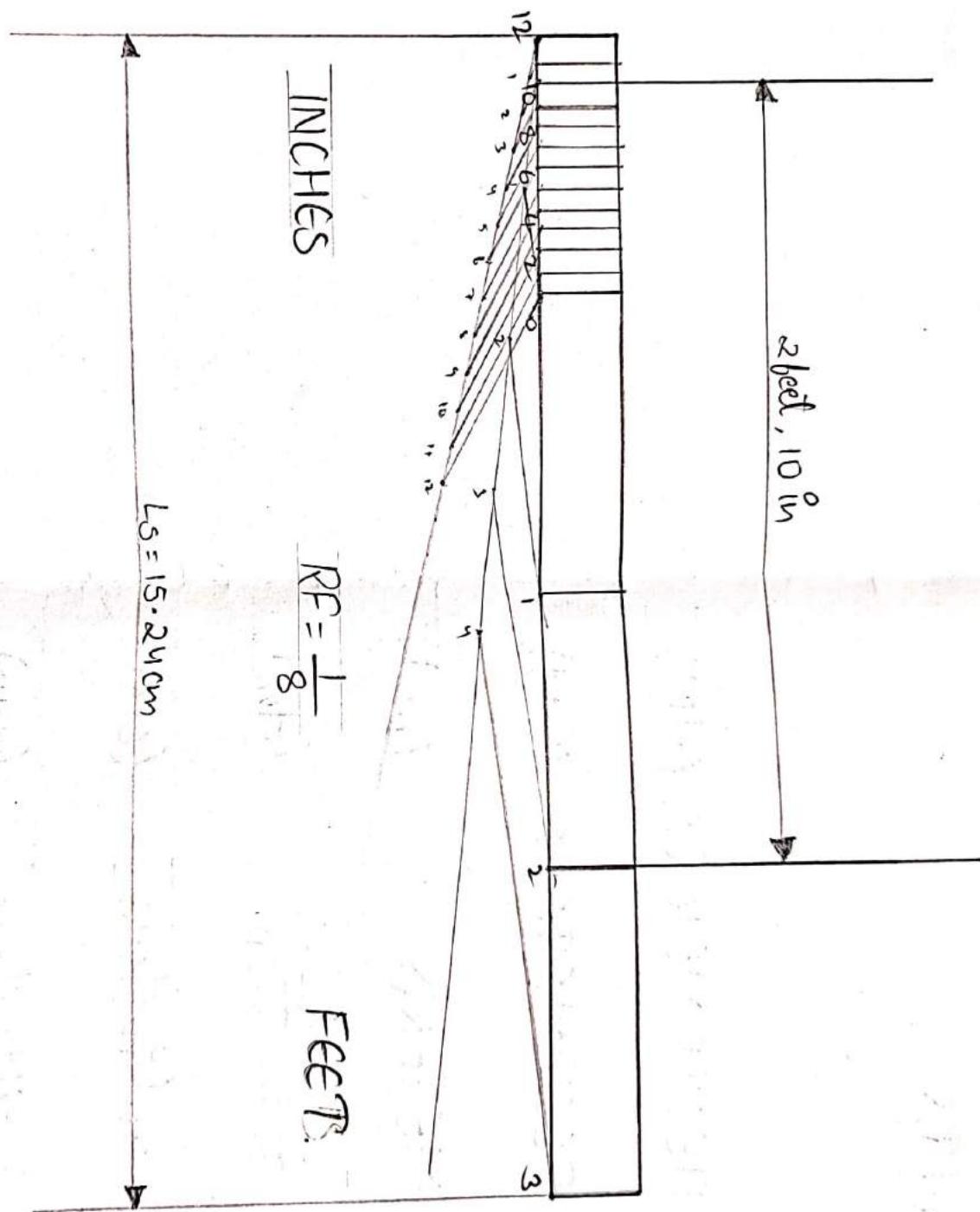
CONSTRUCTING A PLAN SCALE.

(6)



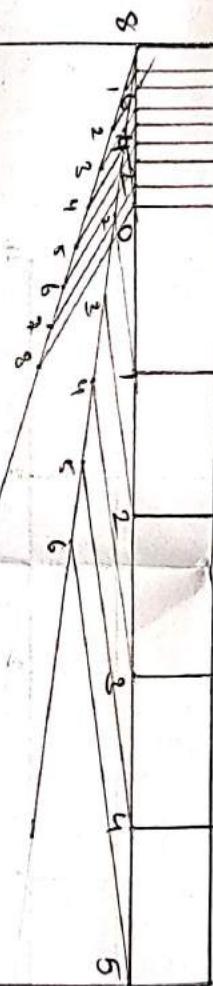
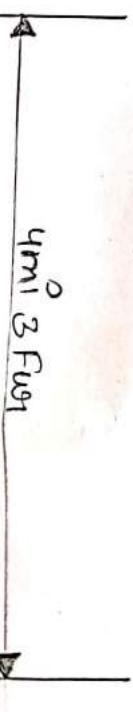
CONSTRUCTING A PLAN SCALE.

CONSTRUCTING A PLAIN SCALE.



(a)

(b)



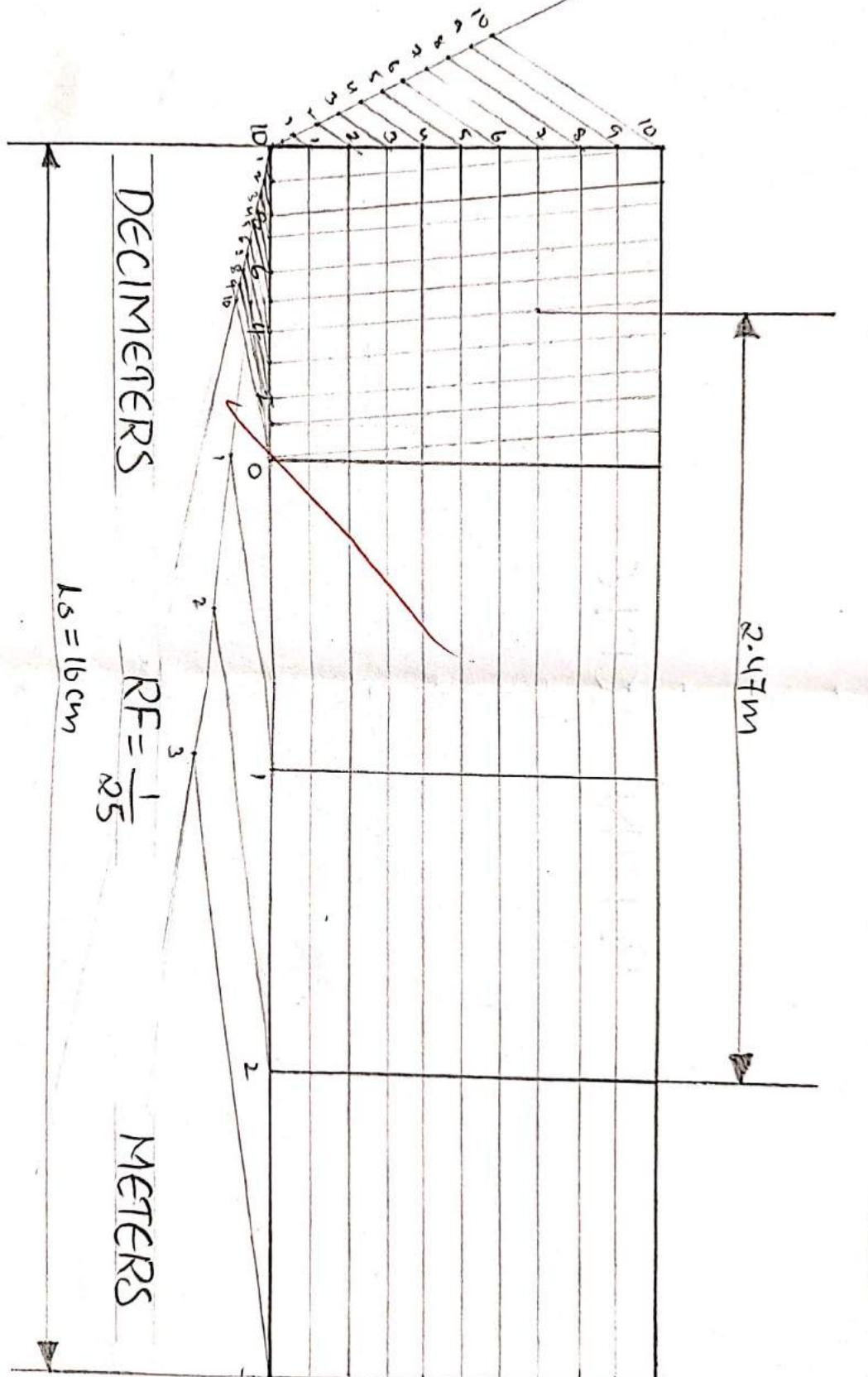
$$\text{FURLONGS} \quad RF = \frac{1}{84480} \quad \text{MILES}$$

$$LS = 11.43 \text{ cm}$$

CONSTRUCTING A PLAN SCALE.

(2)

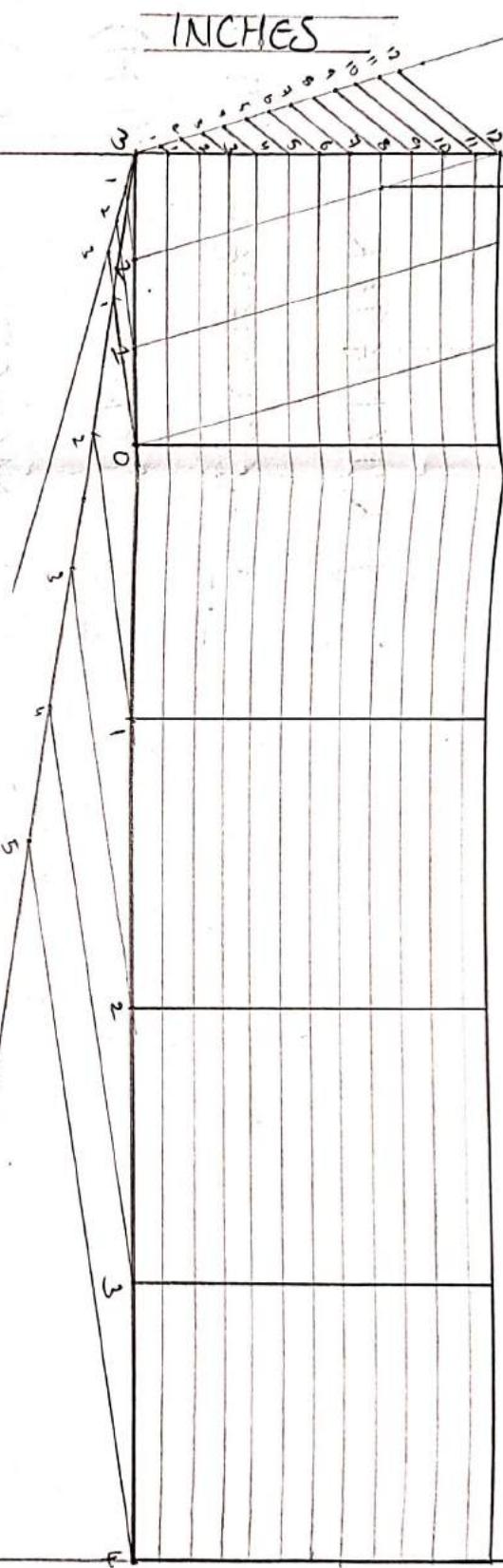
CENTIMETERS



CONSTRUCTING A DIAGONAL SCALE.

(10)

yrd 2ft 8in



$$RF = \frac{1}{22.5}$$

$$Ls = 20.32 \text{ cm}$$

CONSTRUCTING A DIAGONAL SCALE

CONSTRUCTING A DIAGONAL SCALE.

FURLONGS

$$RF = \frac{1}{63360}$$

MILES

$$LS = 15.24 \text{ cm}$$

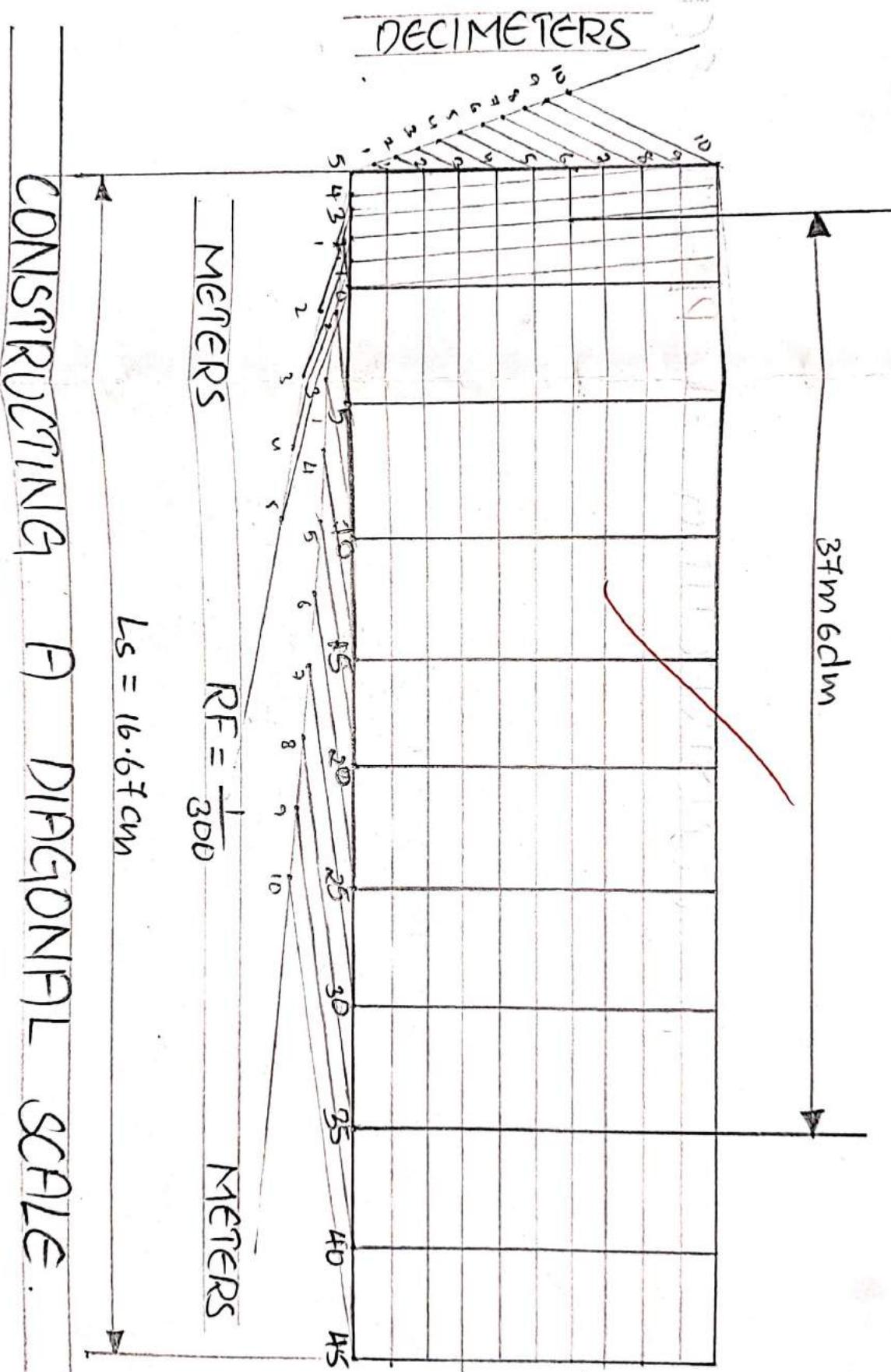
CHAINS

(11)

5 mi⁰ 5 furl + ch.



(12)

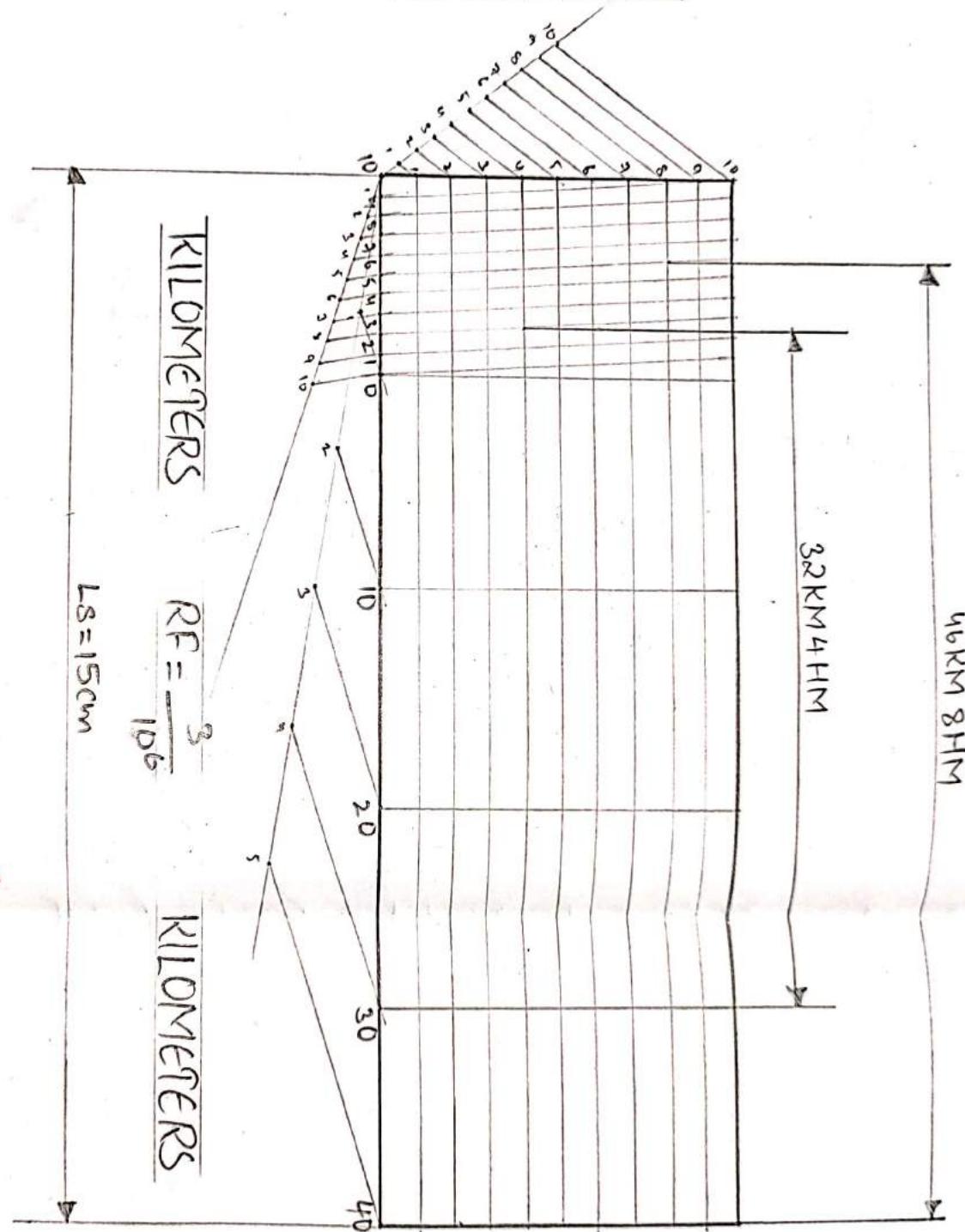


CONSTRUCTING A) DIAGONAL SCALE.

$$L_s = 16.67 \text{ cm}$$

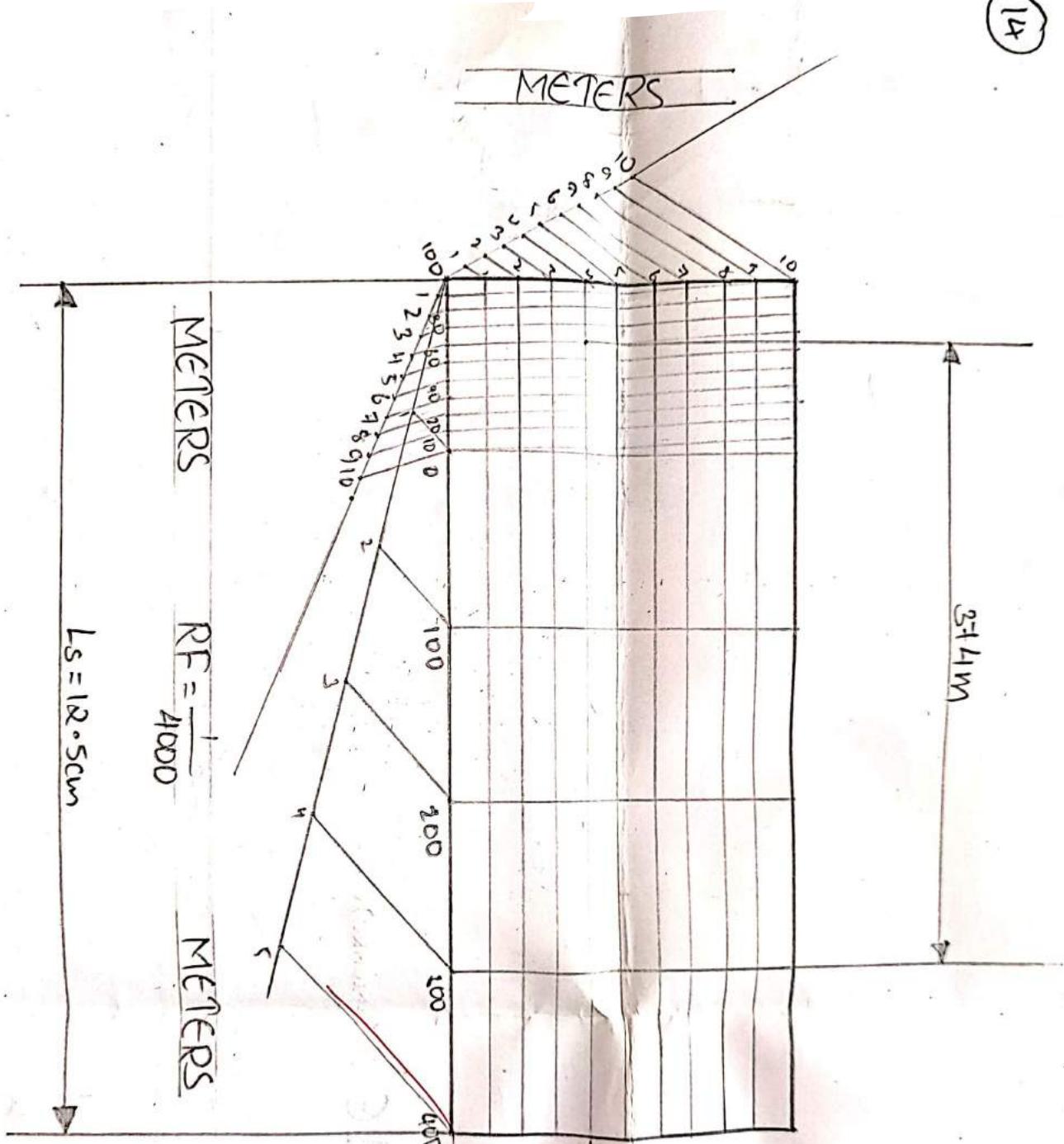
(13)

HECTAMETERS



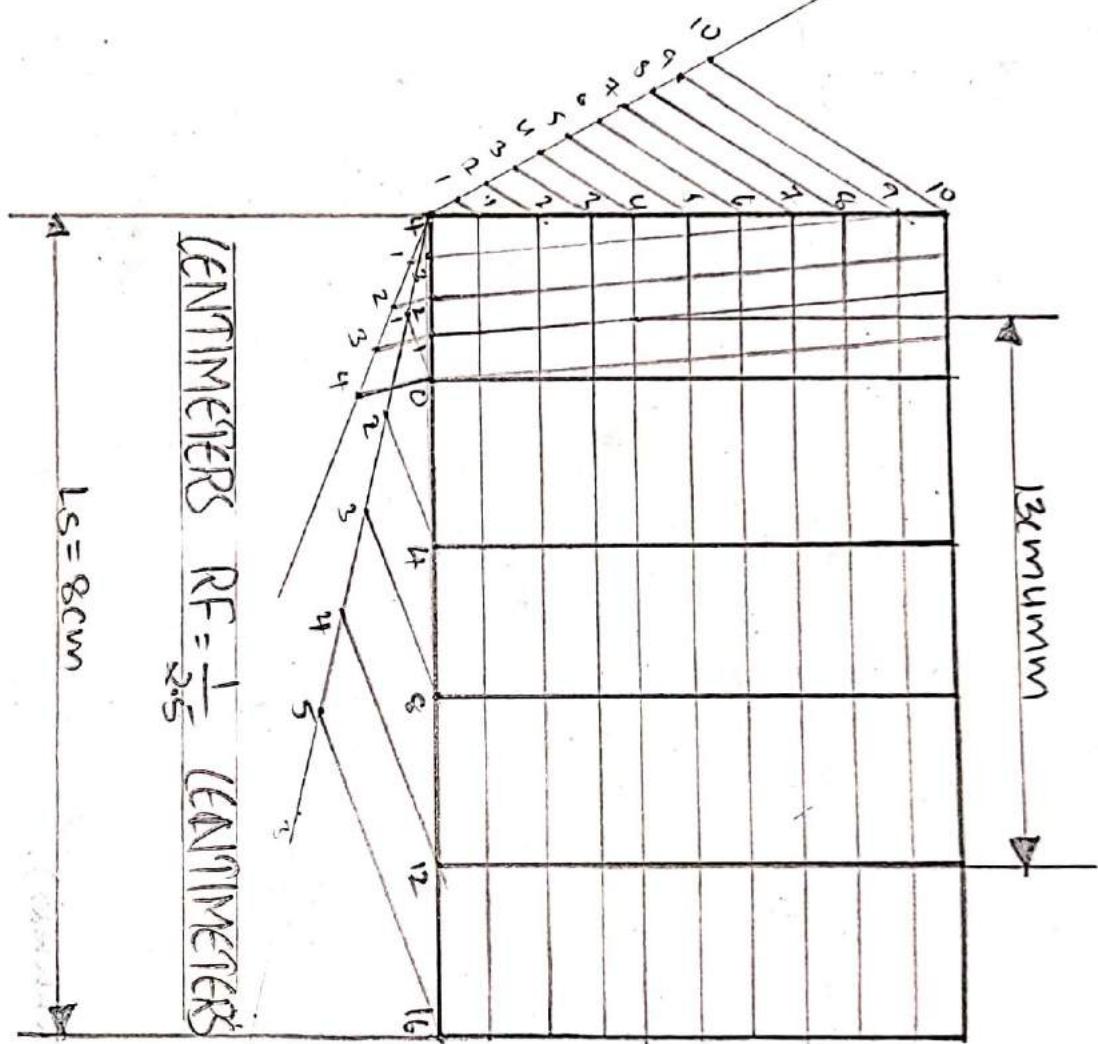
~~TO CONSTRUCT A DIAGONAL SCALE.~~

TO CONSTRUCT A DIAGONAL SCALE.



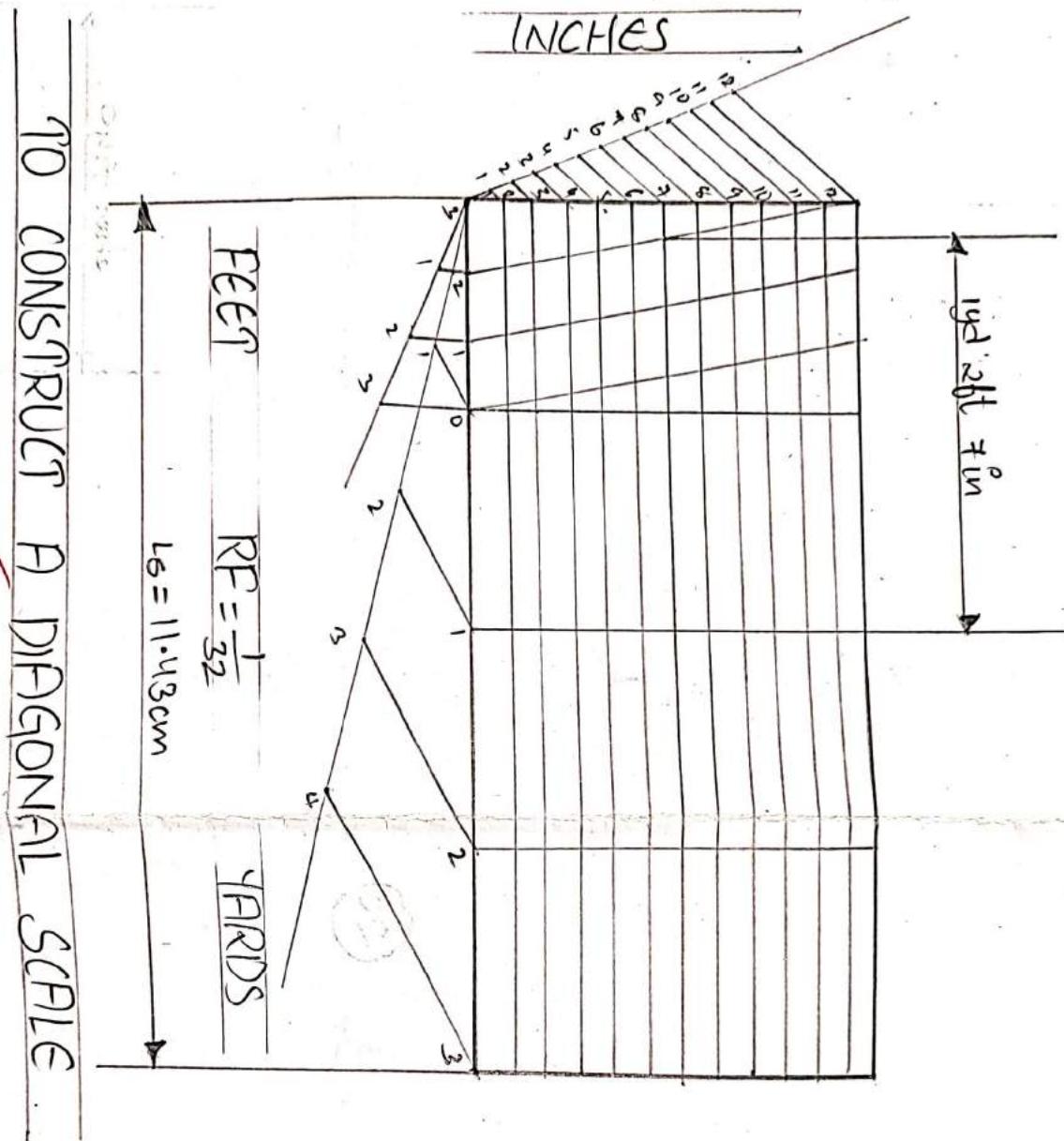
15

MILLIMETERS.



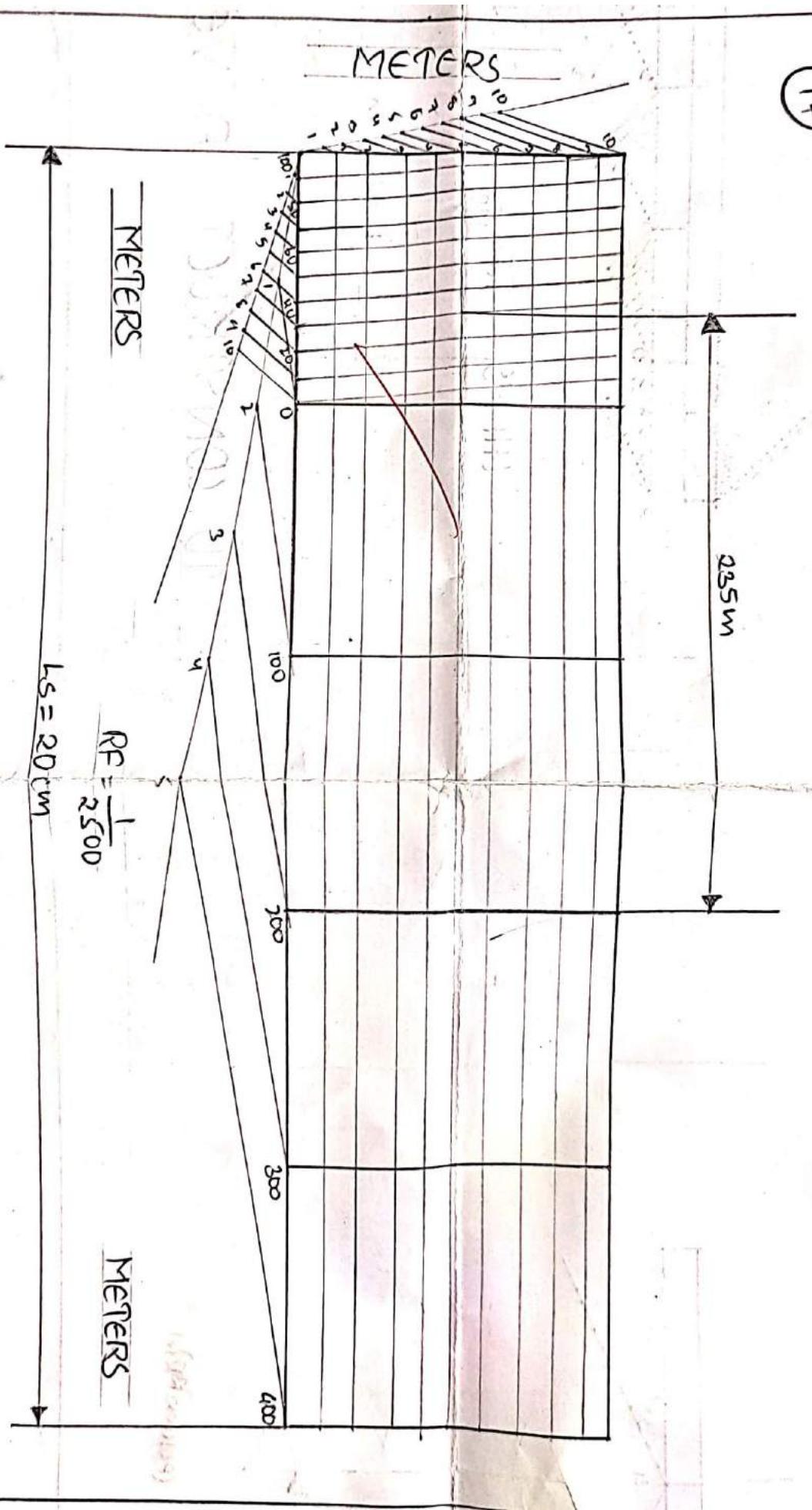
TO CONSTRUCT A DIAGONAL SCALE.

16

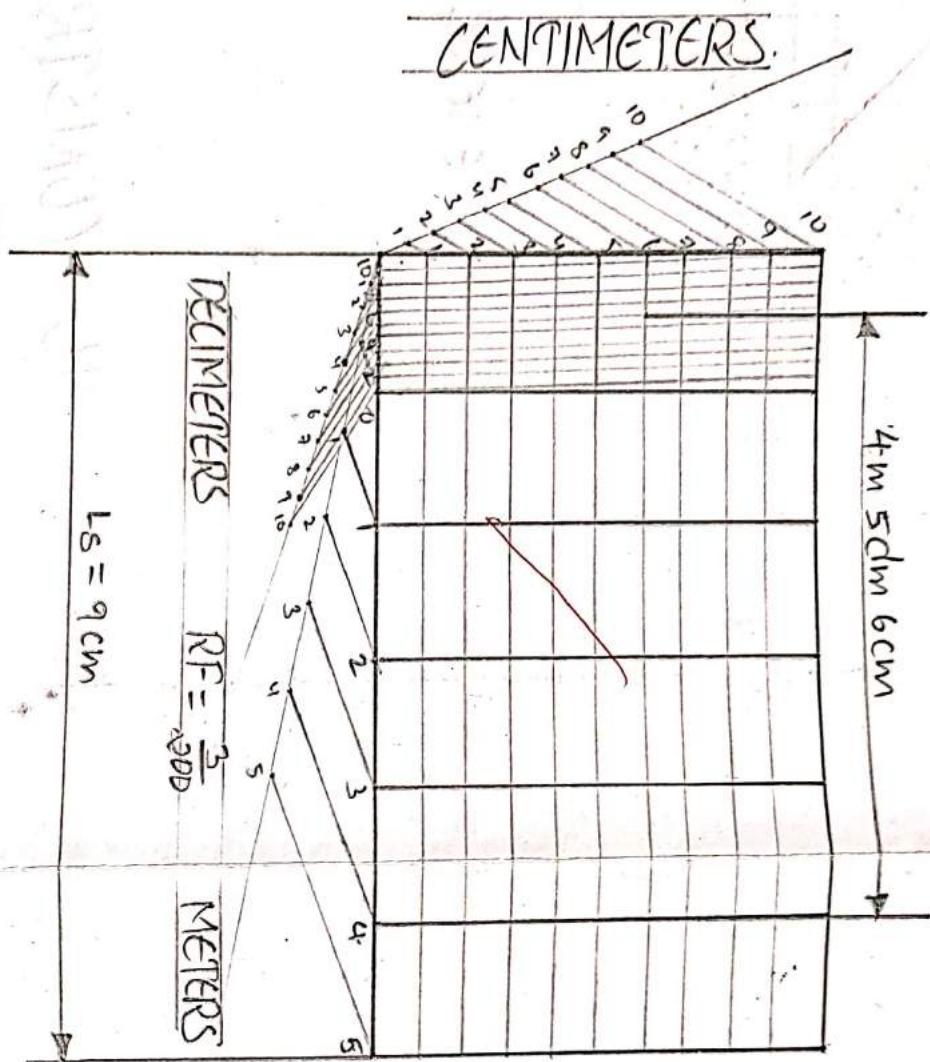


TO CONSTRUCT A DIAGONAL SCALE

TO CONSTRUCT A DIAGONAL SCALE.



To construct a diagonal scale



(19)

CENTIMETERS.

4.86m

DECIMETERS

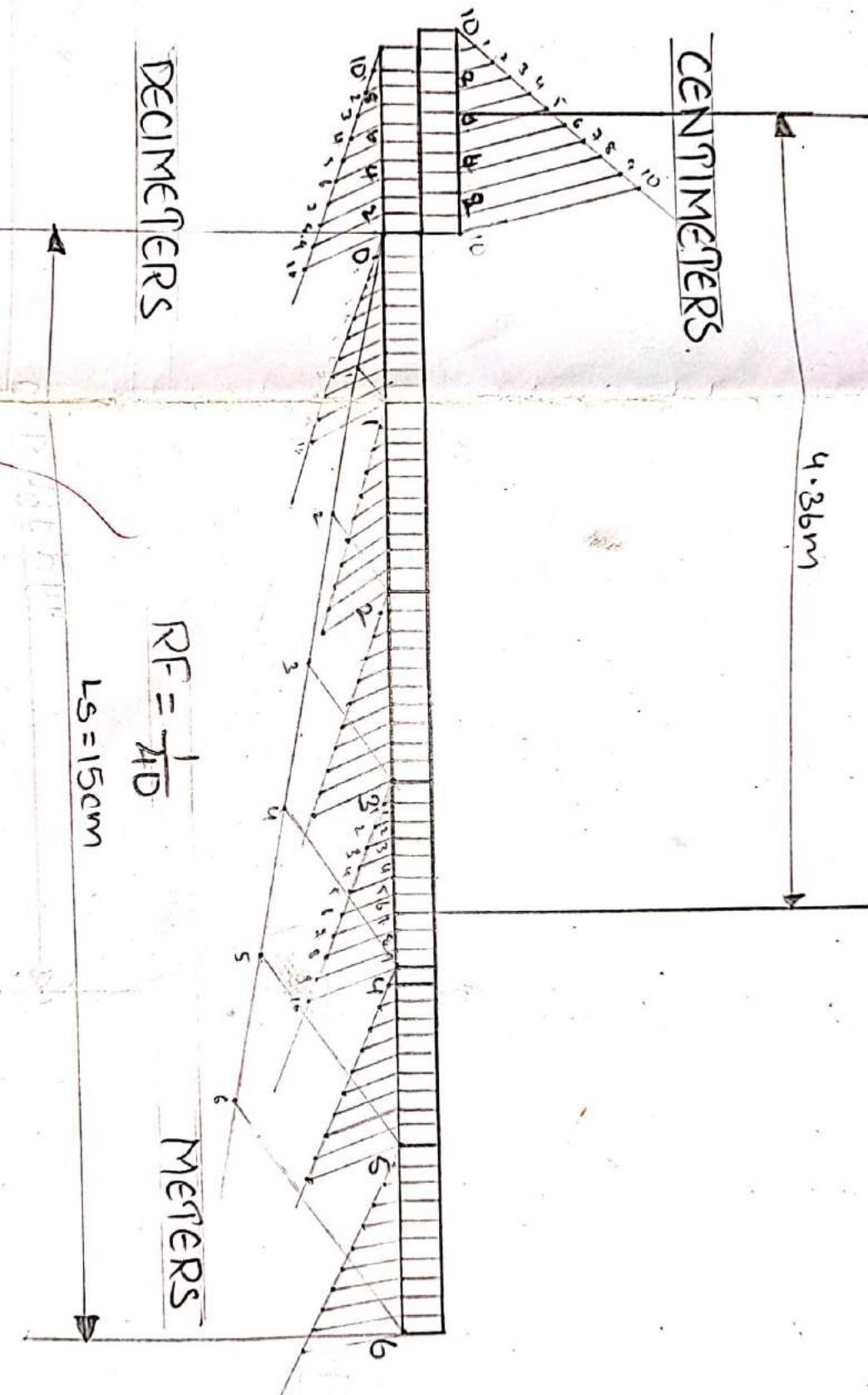
$$RF = \frac{1}{40}$$

LS = 15cm

METERS

To construct

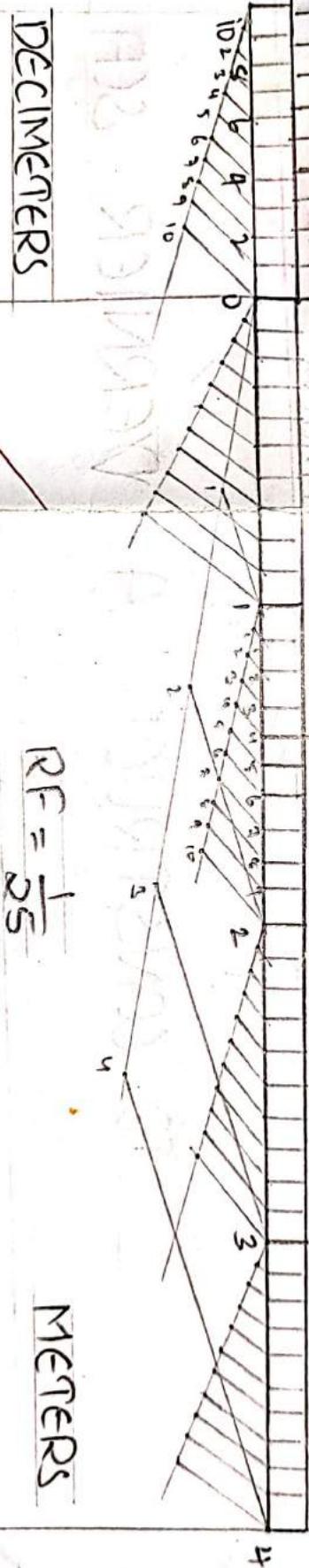
A VERNIER SCALE (forward)



(20)

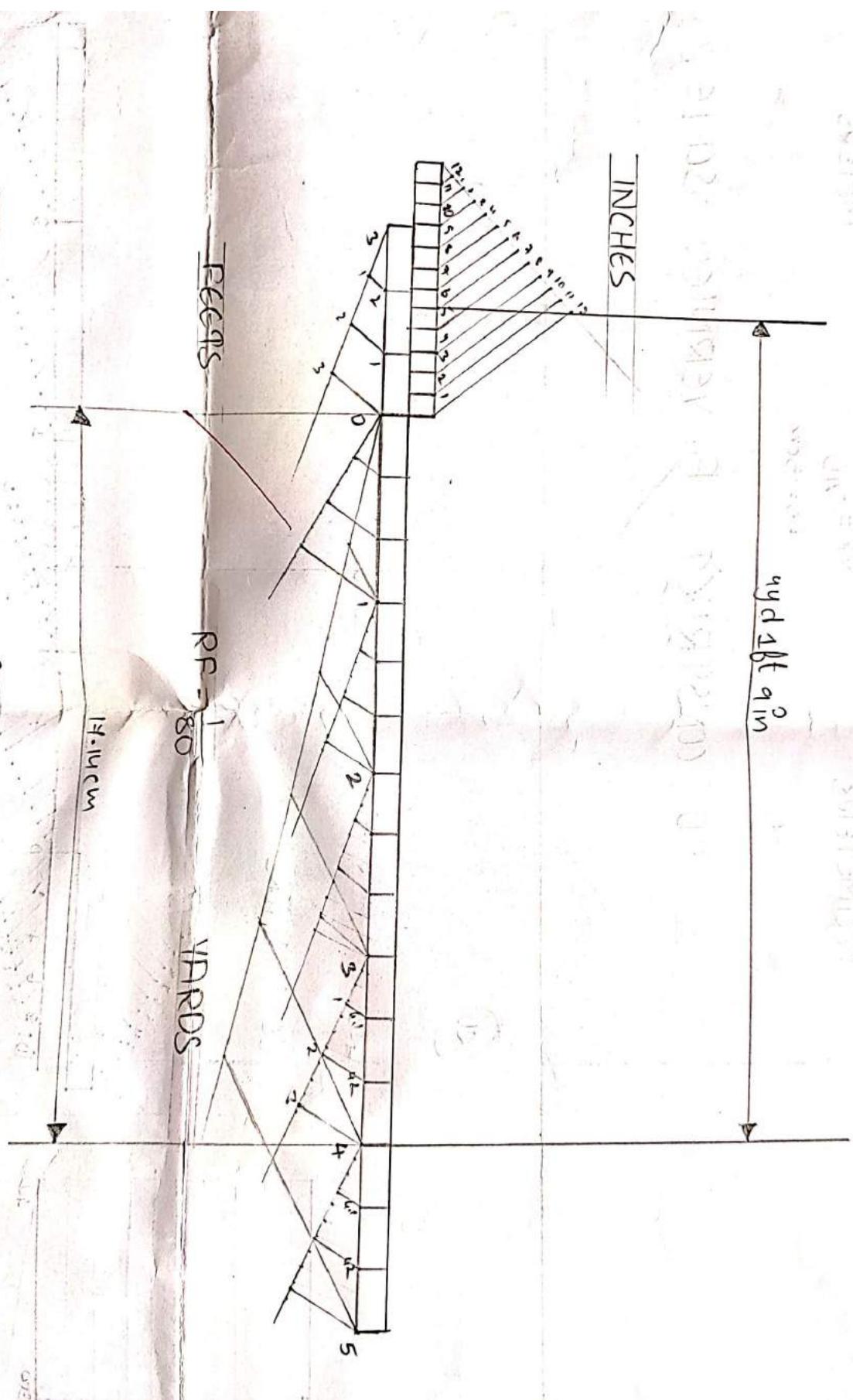
CENTIMETERS

2.39 cm



TO CONSTRUCT A VERNIER SCALE. (FORWARD)

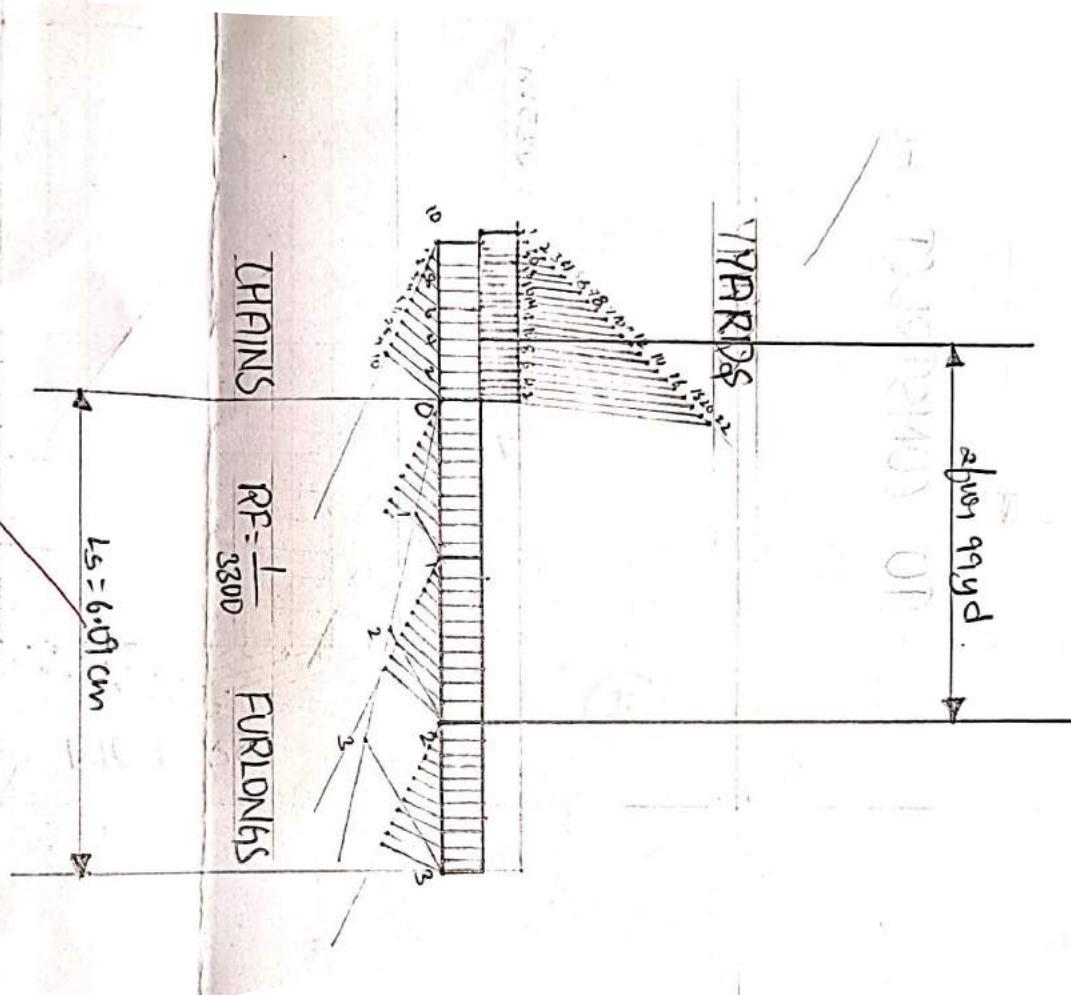
(21)



To construct a vernier scale

(Forward)

(22)

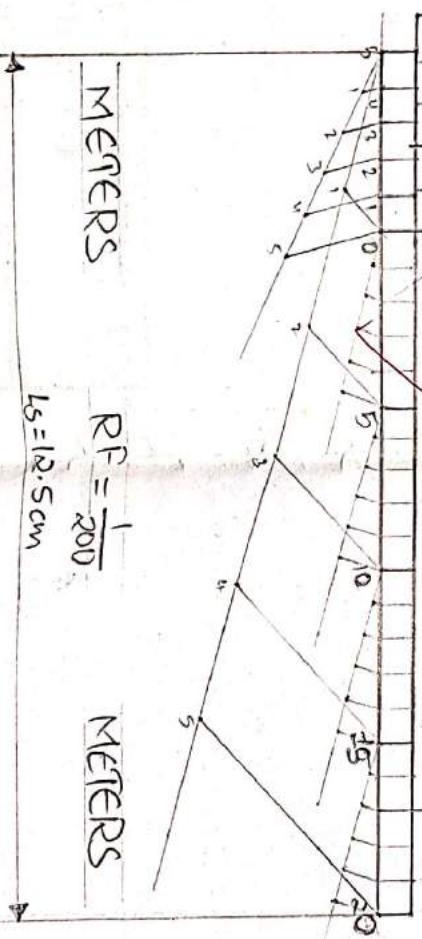


TO CONSTRUCT A VERNIER SCALE. (FORWARD)

(23)

MADE BY SAWYER
DECIMETERS

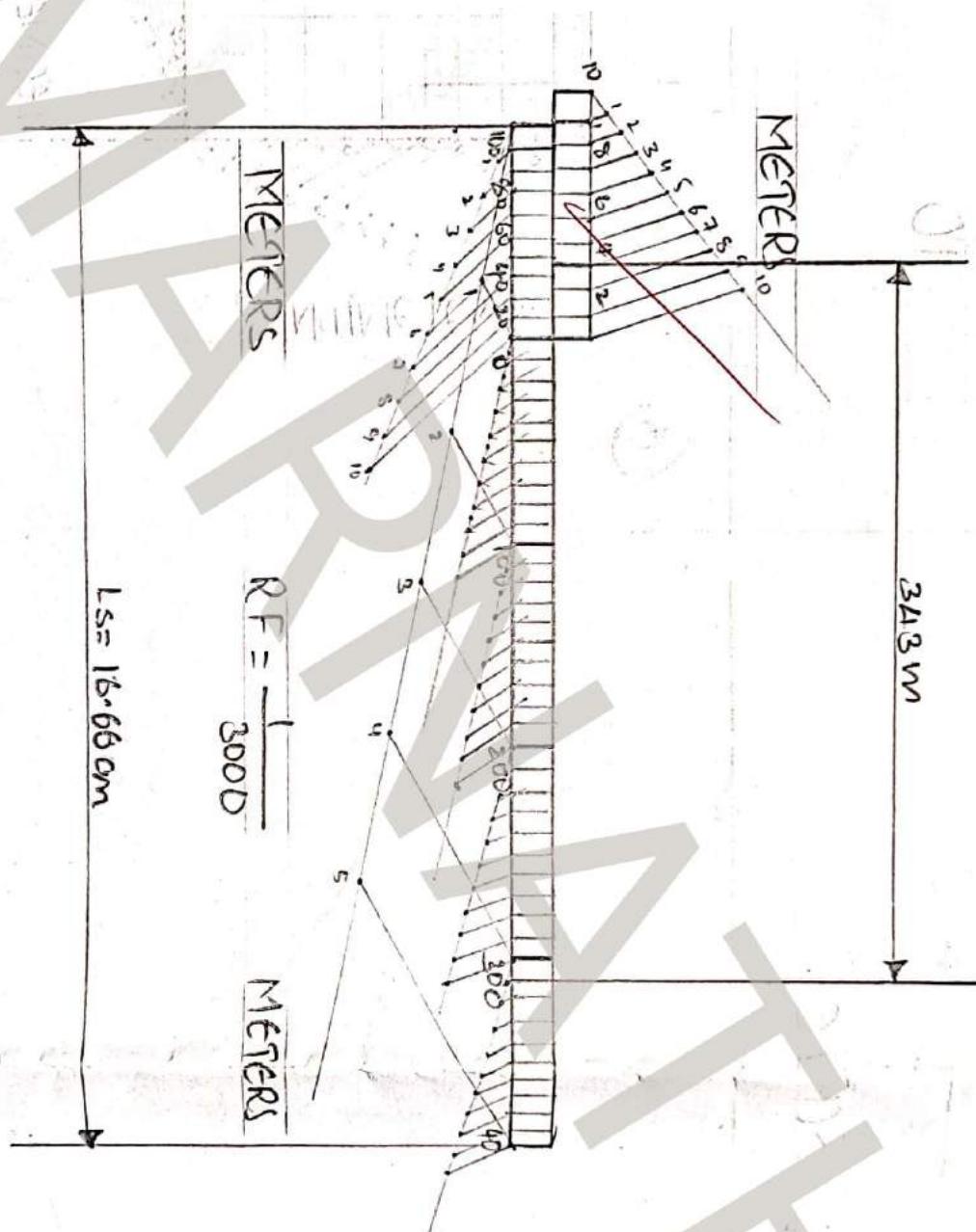
19.4 m



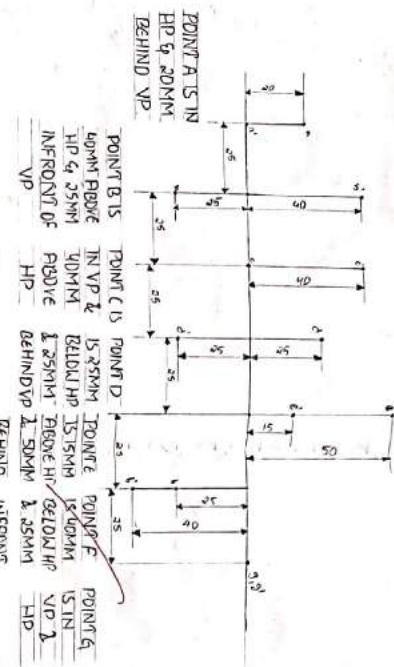
TO CONSTRUCT A VERNIER SCALE (BACKWARD)

24

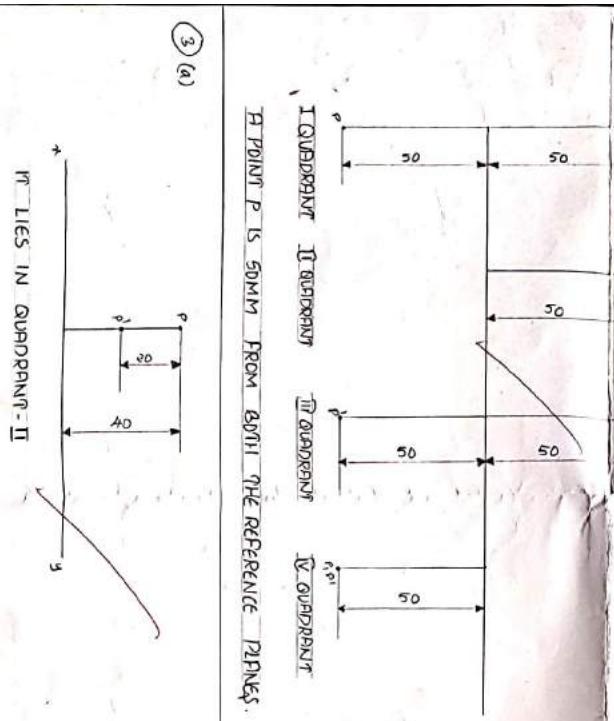
To construct a vernier scale (backward)



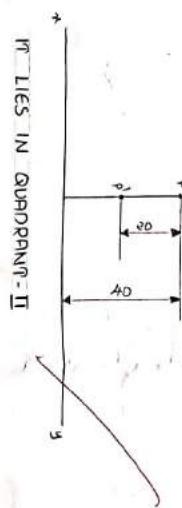
(1)



(2)

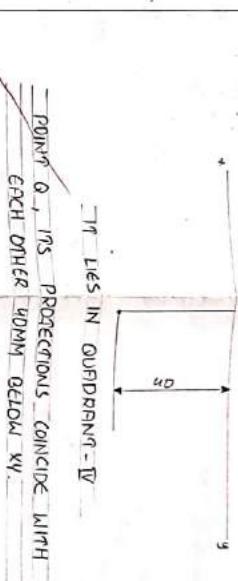


(3)(a)

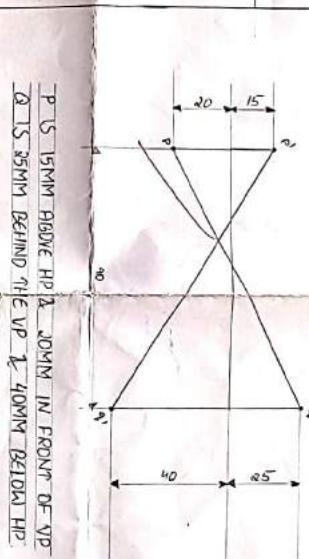


A POINT P; ITS TOP VIEW IS 40MM ABOVE XY; THE FRONT VIEW, 20MM BELOW THE TOP VIEW.

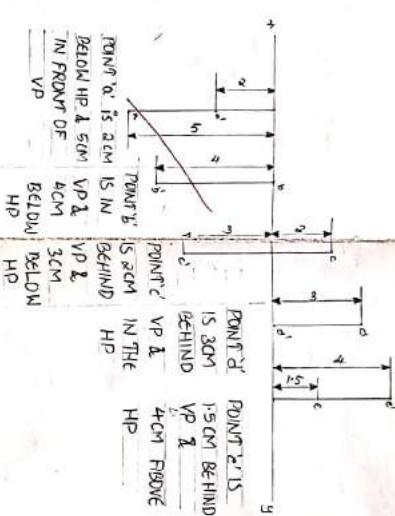
(3)(b)



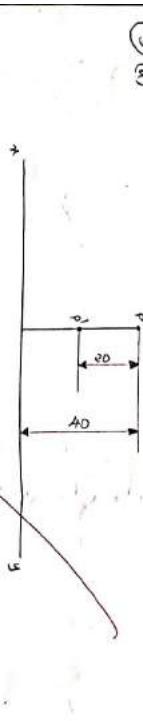
(4)



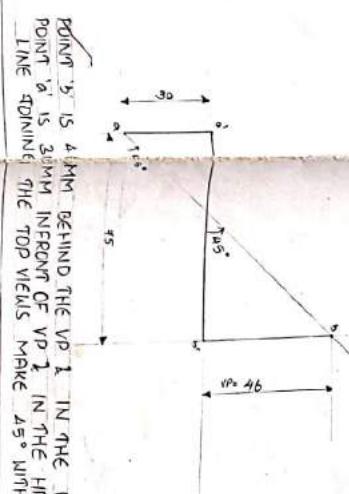
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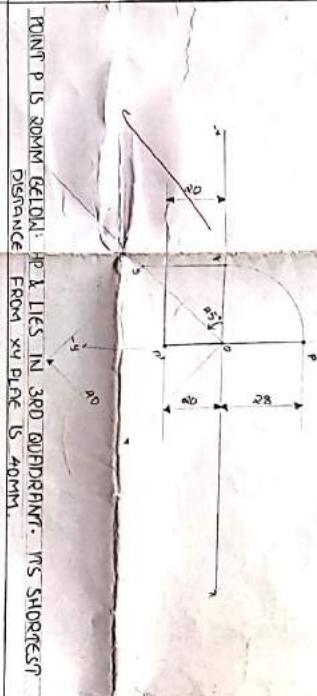
(3)(b)



(6)



(7)

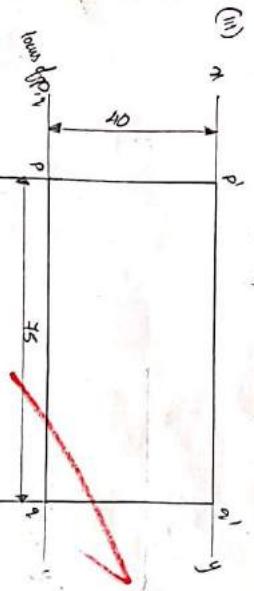


ALL DIMENSIONS ARE IN MM

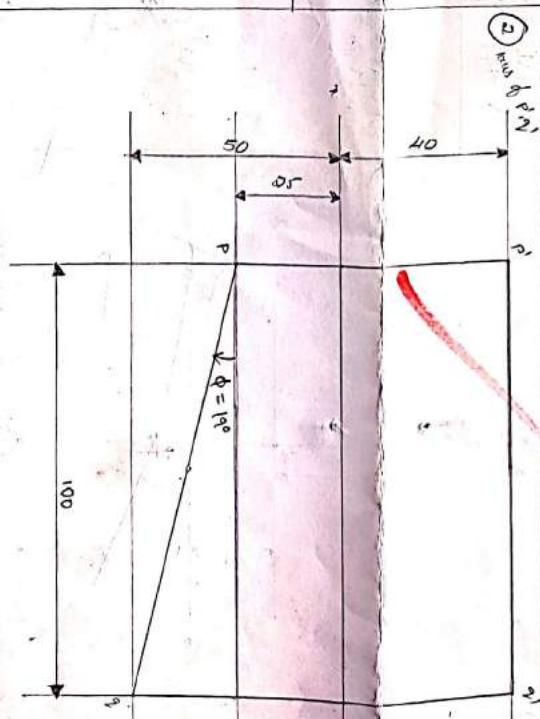
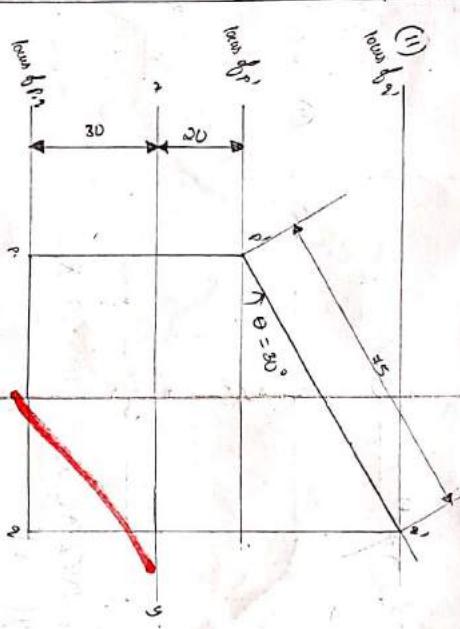
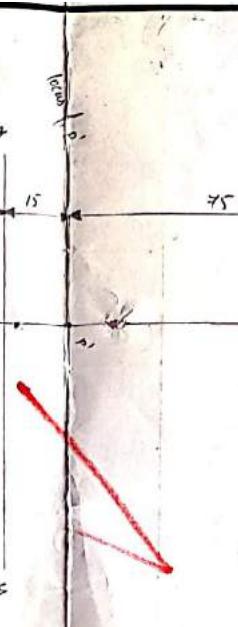
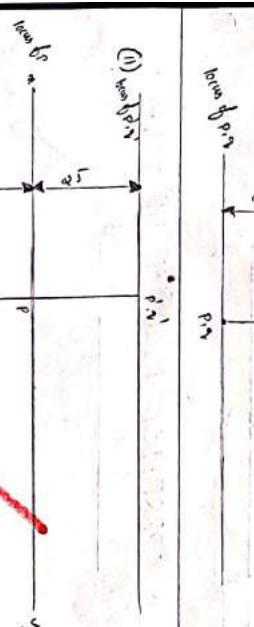
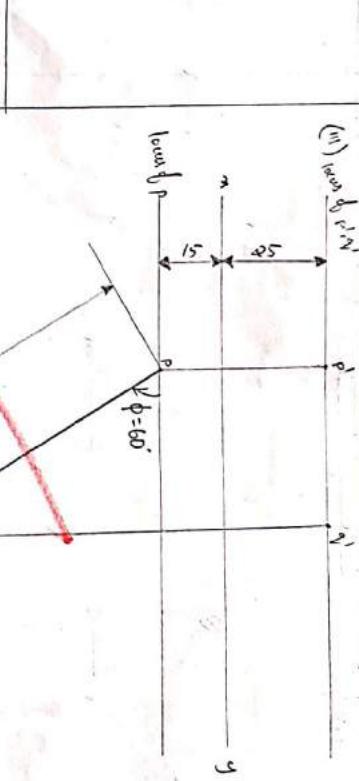
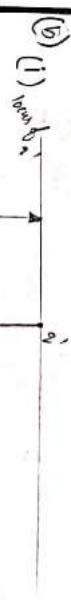
MAHATMA GANDHI INSTITUTE OF TECHNOLOGY
GANDIPET, HYDERABAD - 500 075

TITLE : PROJECTION OF POINTS
NAME : G. AMARNAKH
CLASS : ECE - 2

ROLL NO : 40 DATE : 27/09/2019 SHEET NO : 08
SCALE : 1:1



IN FRONT OF VP & IN HP



ALL DIMENSIONS ARE IN MM.

COLLEGE:

TITLE:

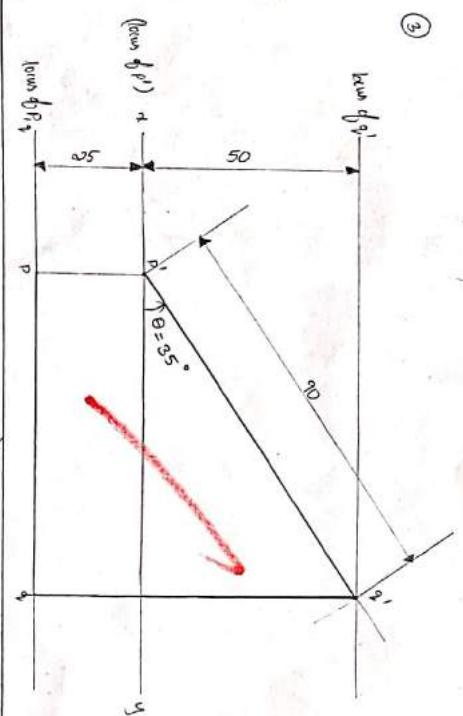
NAME:

ROLL NO.

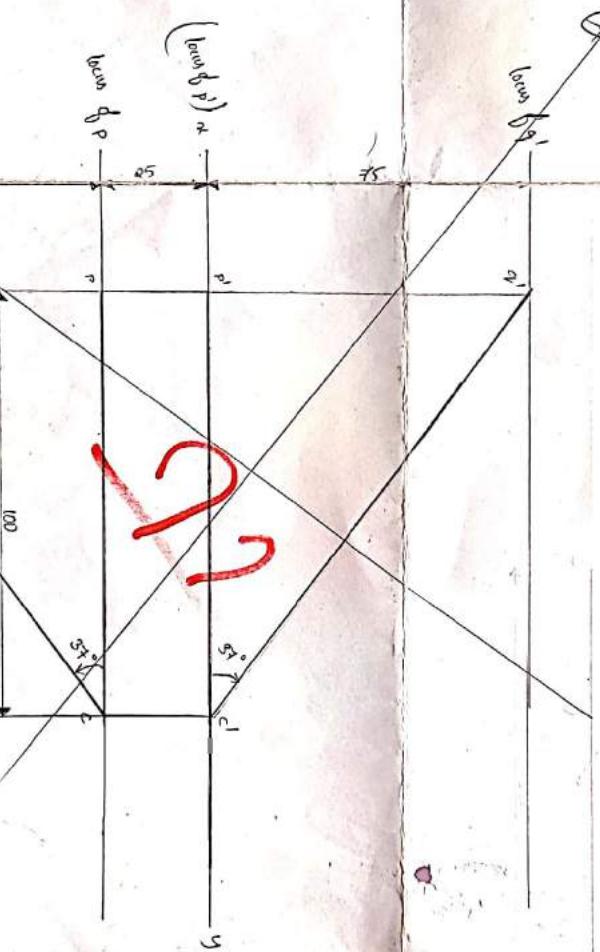
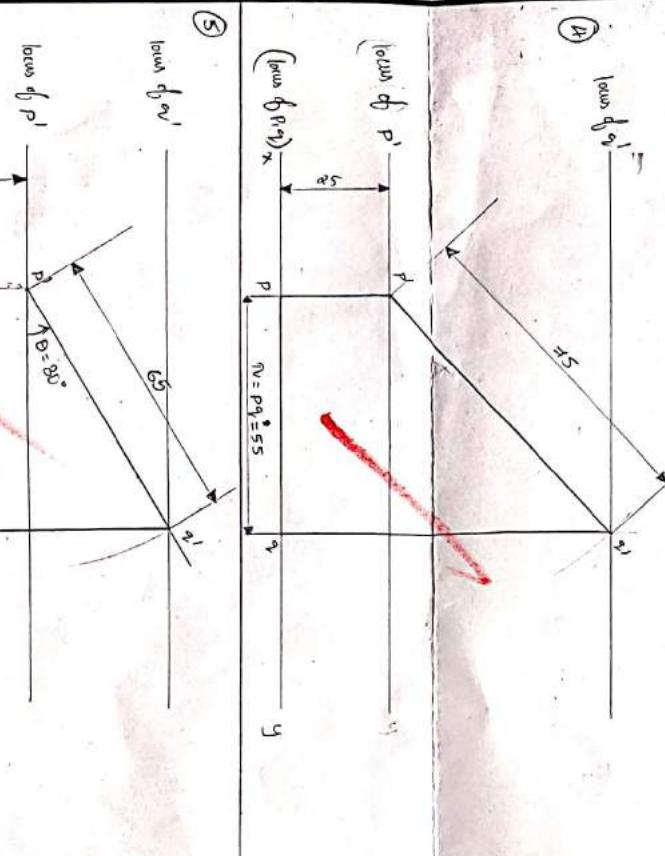
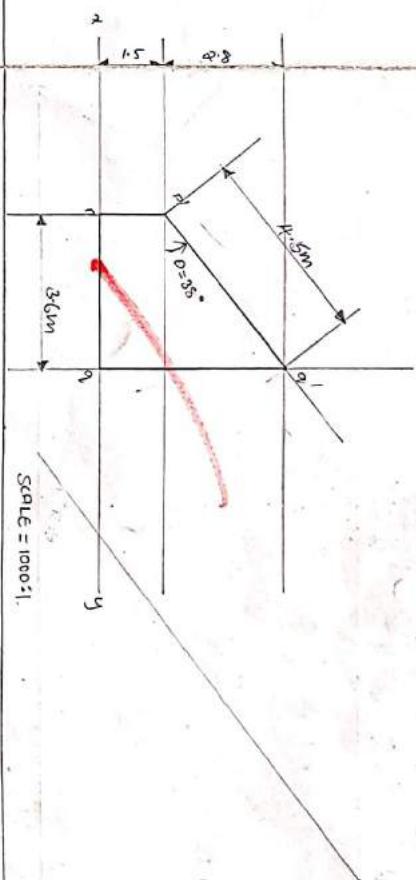
SECTION

PLATE

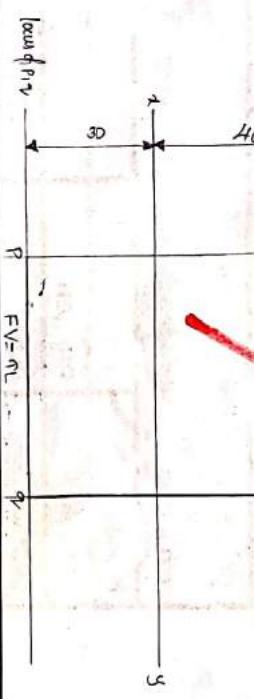
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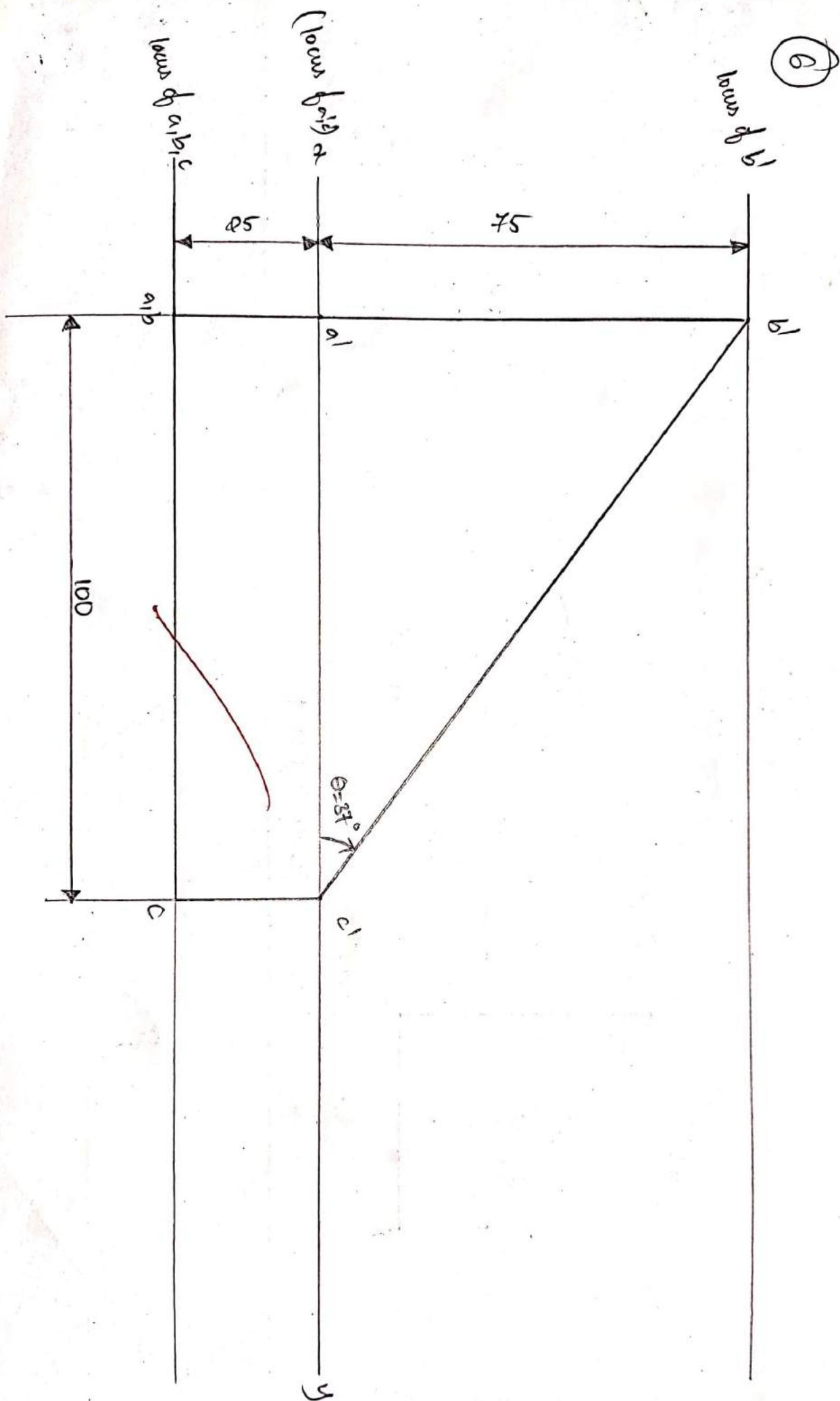
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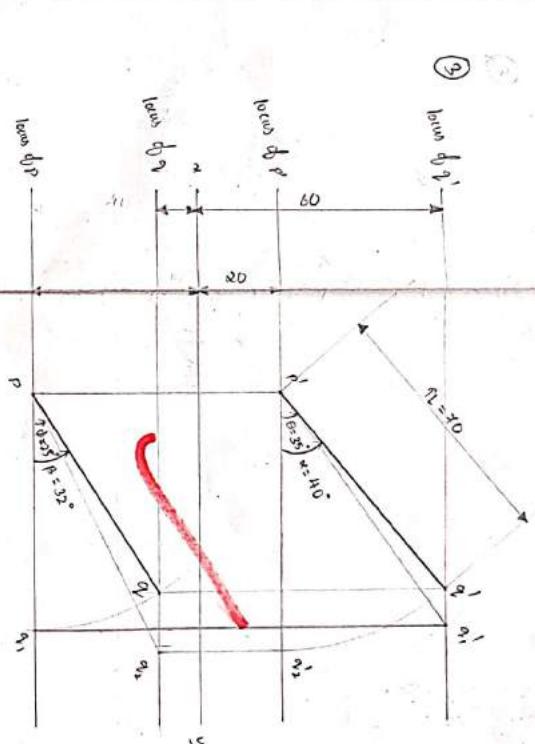
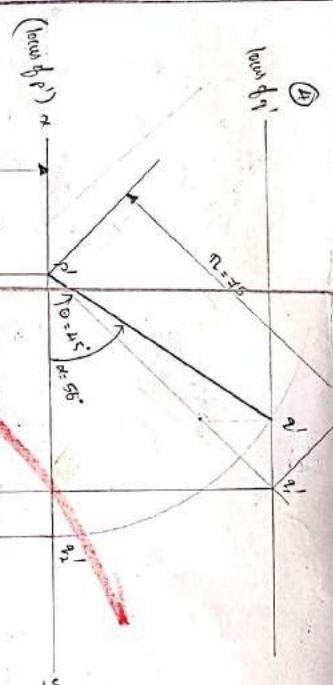
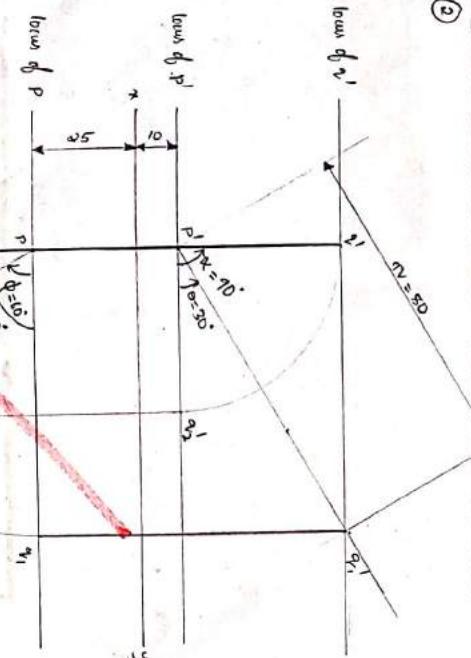
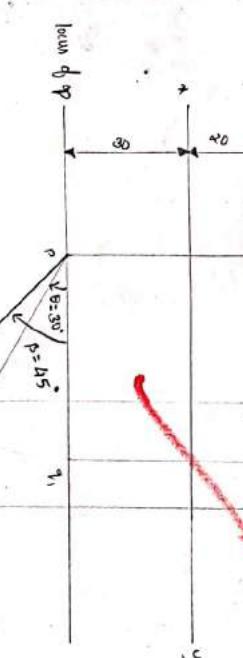
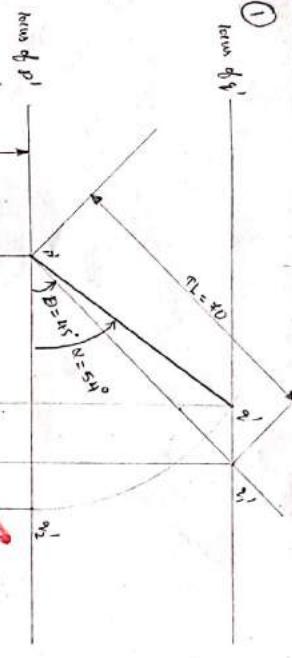
$\frac{1}{10}$
 $\frac{1}{10}$



COLLEGE:	MKIT
TITLE:	LINES INCLINED IN ONE PLANE
NAME:	AMARNATH
ROLL NO.	16020
BRANCH:	EEC-02
SECTION	O2
PLATE	10



MODEL -1 (1402)

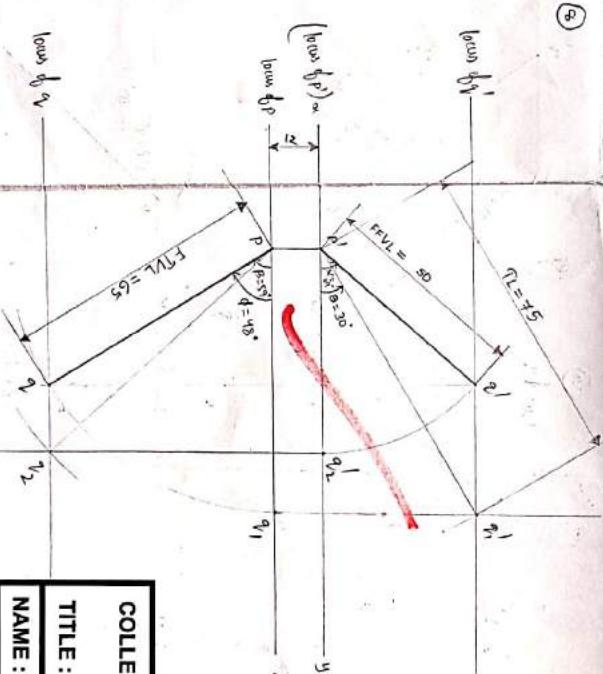
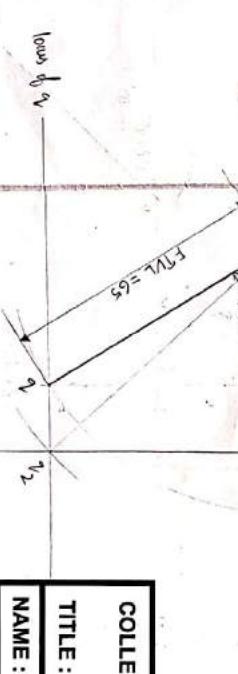
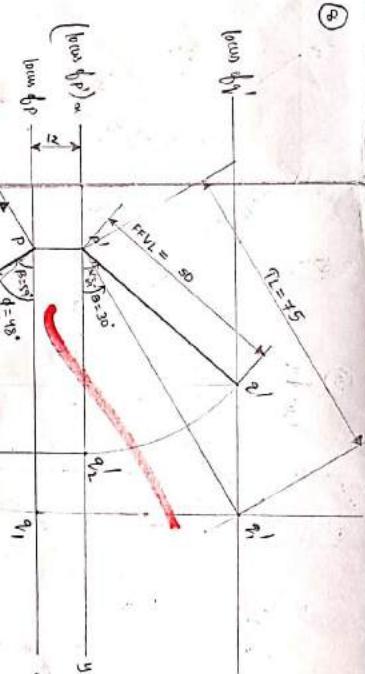
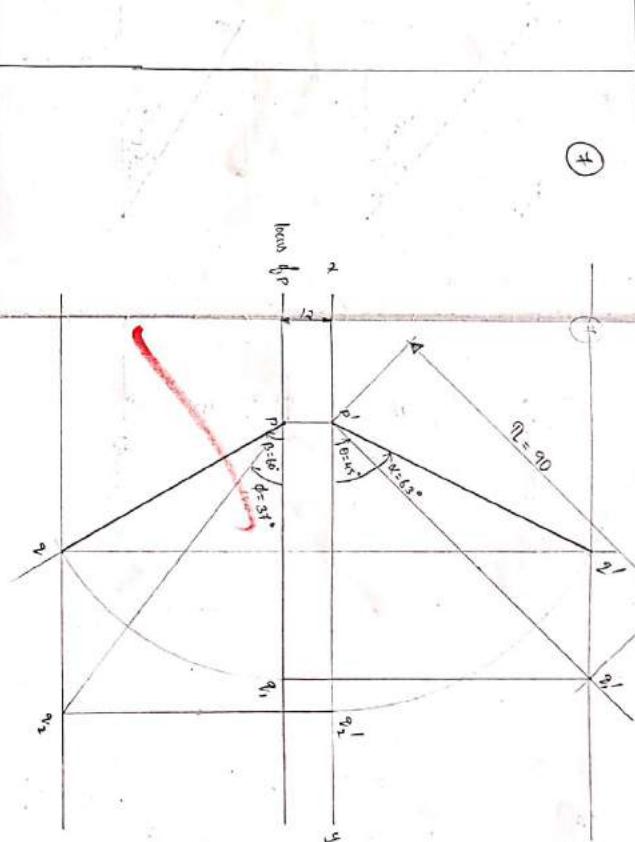
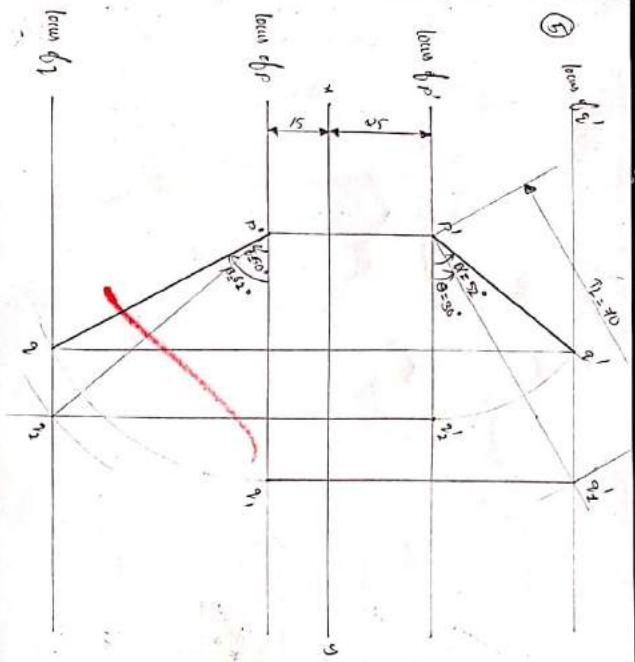


COLLEGE: MCAIT

TITLE: LINE IS INCLINED IN BOTH PLANE.

NAME:	AMARNATH
ROLL NO. 126100	BRANCH ECG - 02
SECTION Q2	PLATE II

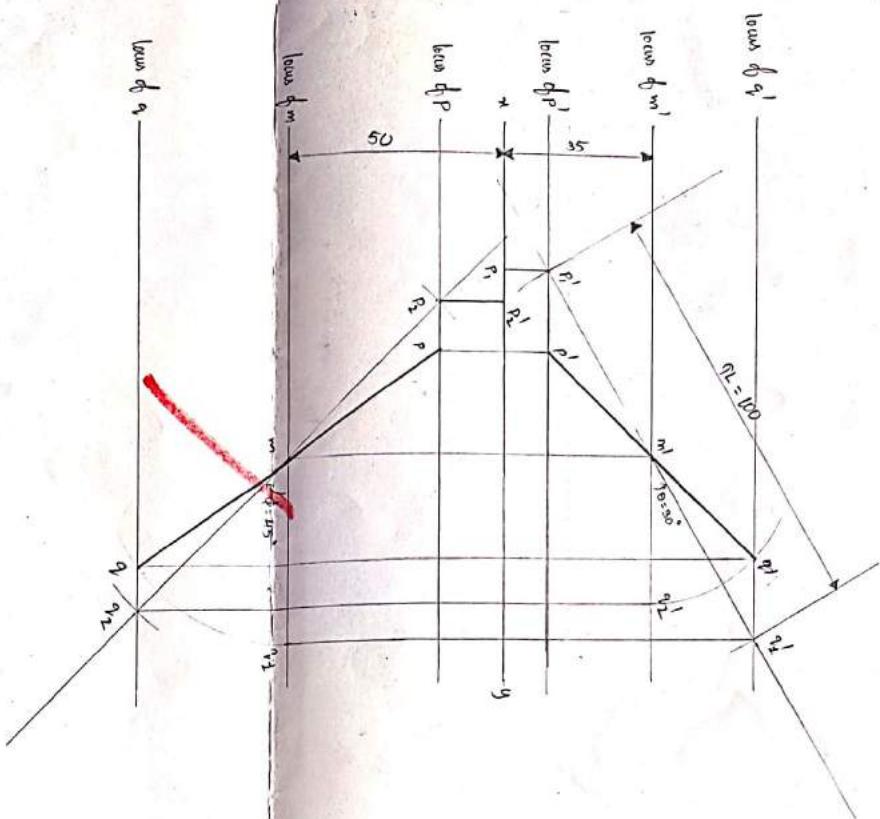
MODEL-2 (5-8)



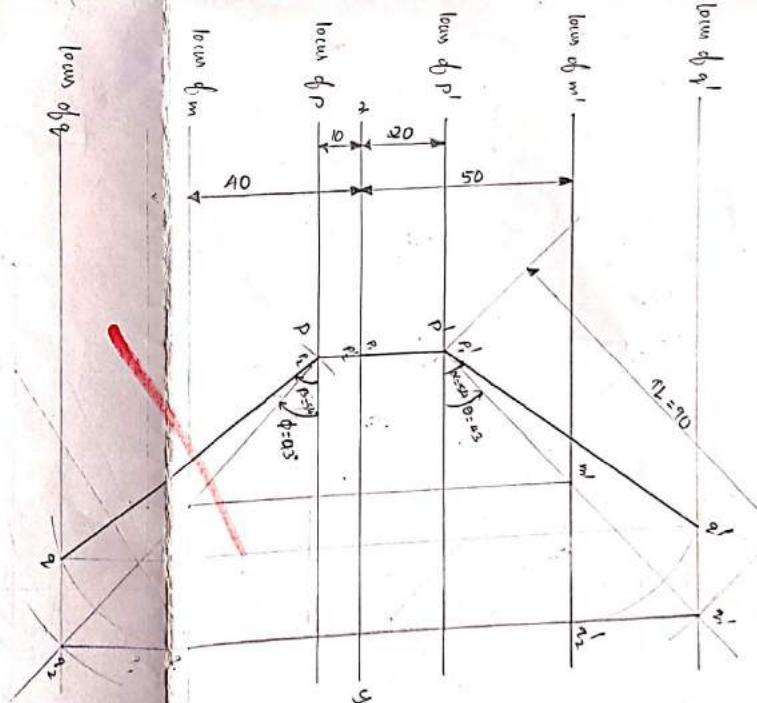
COLLEGE:	
TITLE:	
NAME:	
ROLL NO.	BRANCH
SECTION	PLATE

MODEL-3 (q, r) MID POINT PROBLEMS

(9)



(10)



(10)

COLLEGE: MGIT

TITLE: LINE IS INCLINED IN BOTH PLANS

NAME: AMARNATH

ROLL NO. 4410

BRANCH

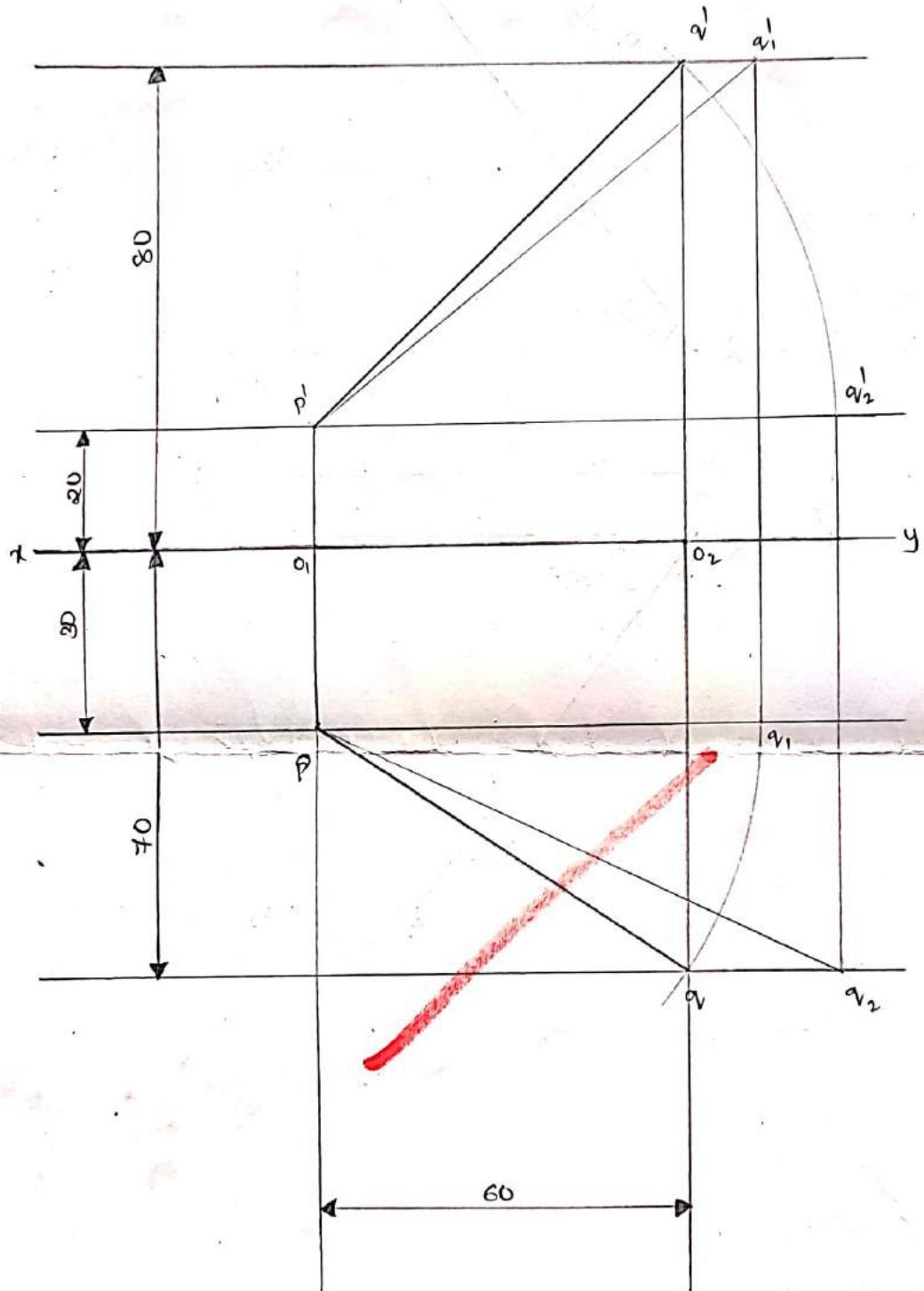
SECTION 02

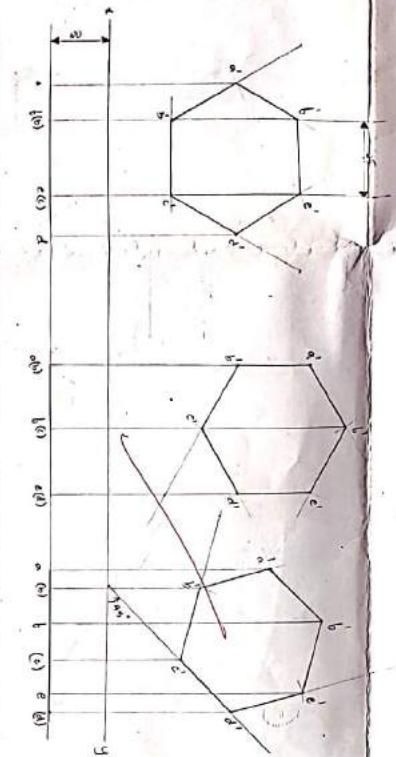
ECE -02

MODEL-4

END PROJECTORS PROBLEM.

(11)





PLANE IS PARALLEL TO HP & PERPENDICULAR TO VP.

PLANE IS INCLINED TO HP & PERPENDICULAR TO VP.
HEXAGON HAVING EDGE ON THE GROUND



ALL DIMENSIONS ARE IN MM

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY
GANDIPET, HYDERABAD - 500 075

TITLE: PROJECTION OF PLANES

NAME: AMARNAATH

CLASS: EEE - 02

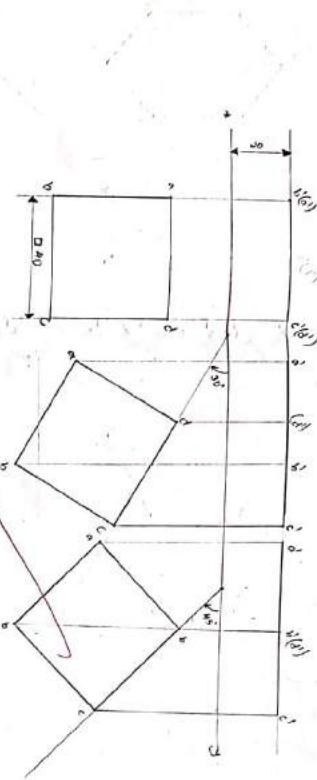
ROLL No. 10

DATE: 03/11/2011

SCALE: 1:1

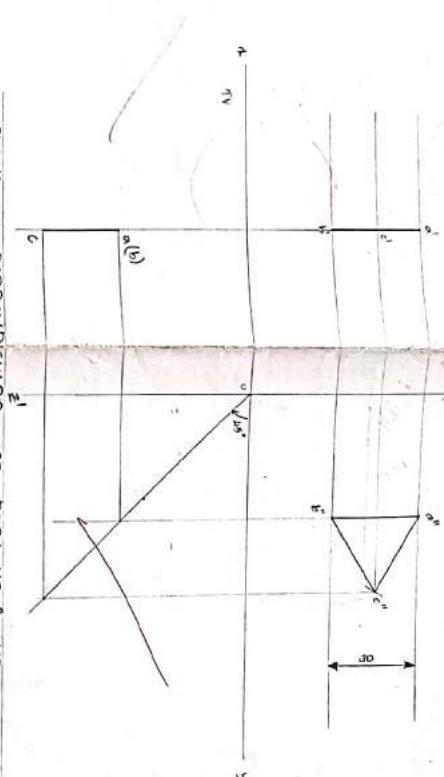
SHEET NO: 13

(1)

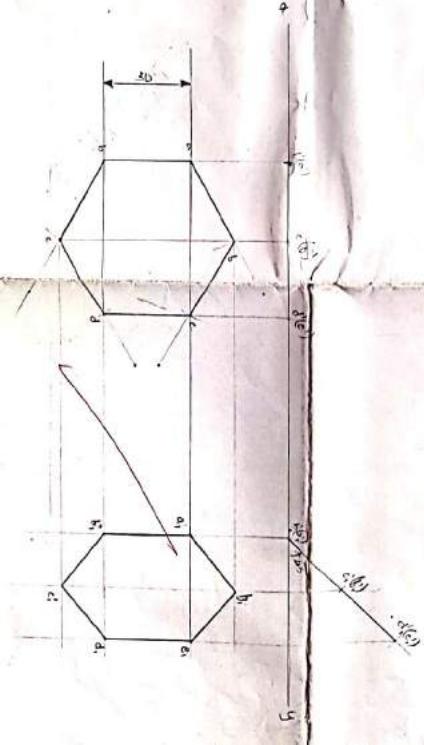


PLANE IS PARALLEL TO HP & PERPENDICULAR TO VP.

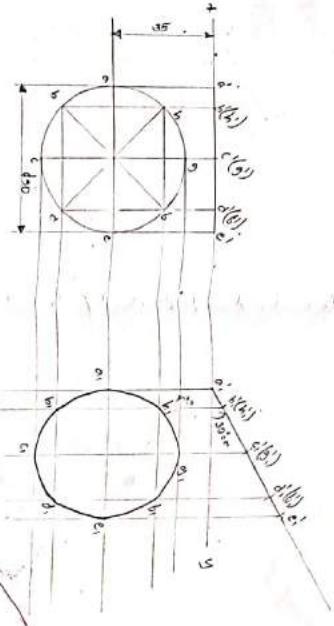
(2)



PLANE IS PERPENDICULAR TO BOTH HP & VP.



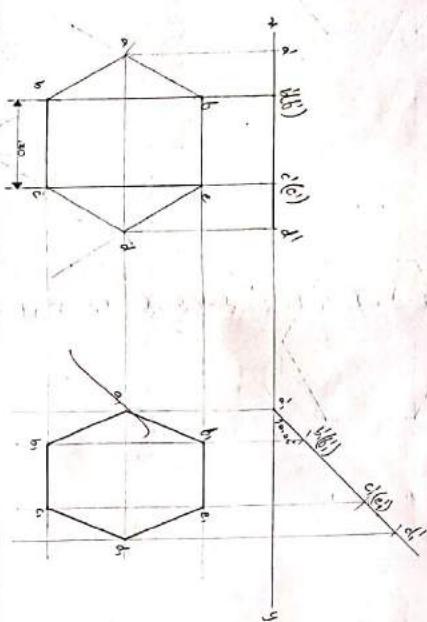
⑥



PLANE INCLINED TO HP & PERPENDICULAR TO VP

CIRCLE

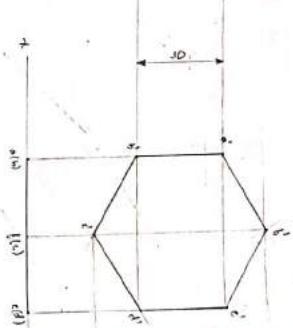
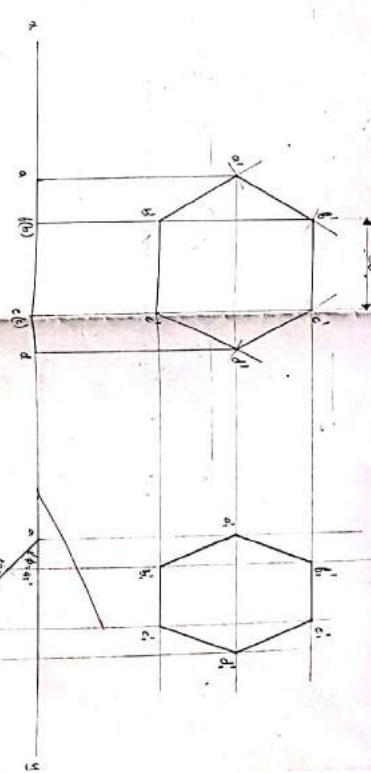
⑦



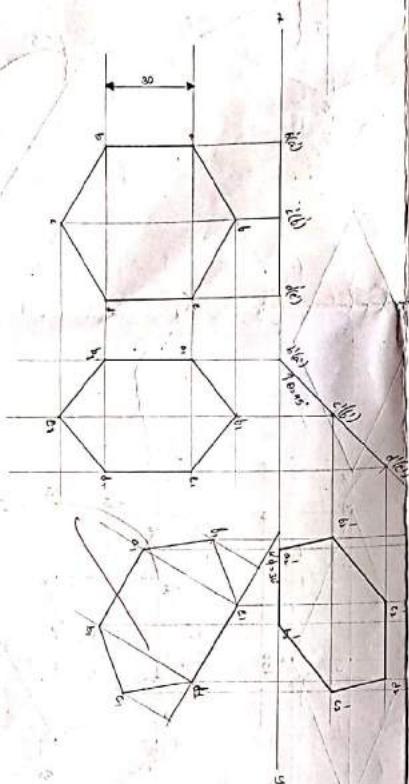
PLANE IS INCLINED TO HP & PERPENDICULAR TO VP

HEXAGON HAVING CORNER ON GROUND

⑧

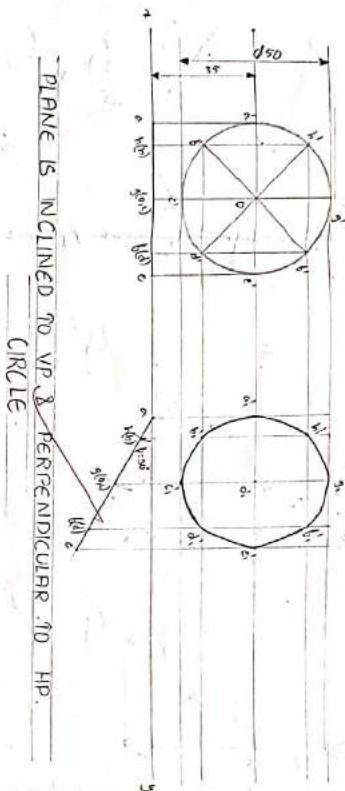
PLANE IS INCLINED TO VP AND PERPENDICULAR TO HP
HEXAGONAL PLANE HAS AN EDGE IN THE VPPLANE IS INCLINED TO VP AND PERPENDICULAR TO HP
HEXAGONAL PLANE HAS A CORNER IN THE VP

(9)



PLANE IS INCLINED TO BOTH THE PLANES (HP & VP)

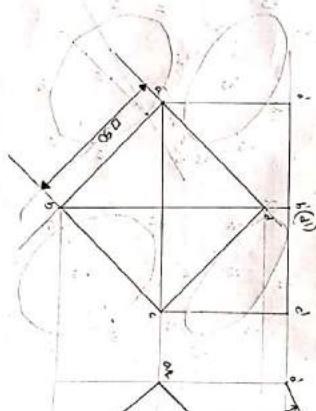
HEXAGON



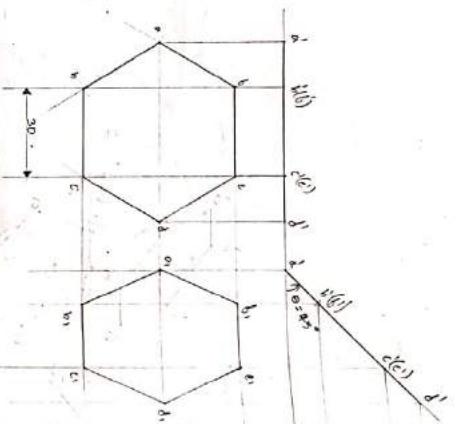
PLANE IS INCLINED TO VP & PERPENDICULAR TO HP.

CIRCLE

(10)

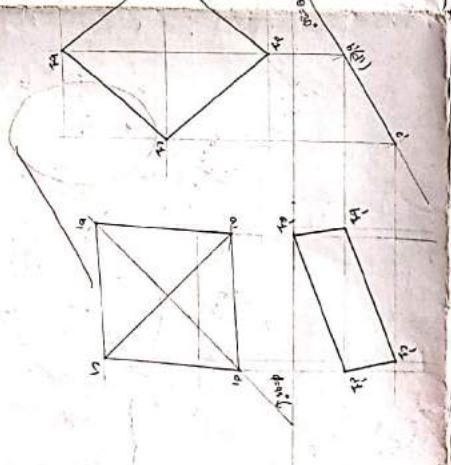


(11)



PLANE IS INCLINED TO BOTH THE PLANES (HP & VP)

HEXAGON



ALL DIMENSIONS ARE IN MM

MATHTMA GANDHI INSTITUTE OF TECHNOLOGY
GANDHIPET HYDERABAD - 500 075

TITLE: PROJECTION OF PLANES

NAME: G. AMARNAI

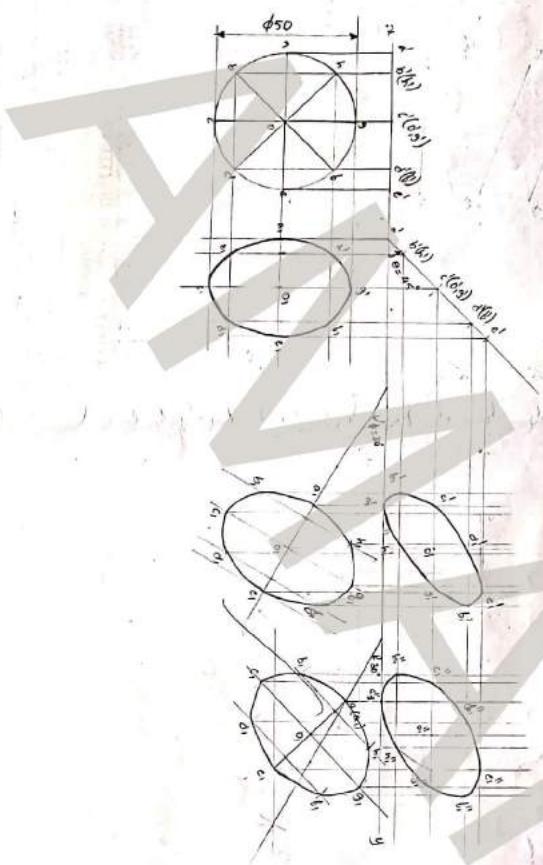
CLASS: ECE - 02

ROLL No. 0440

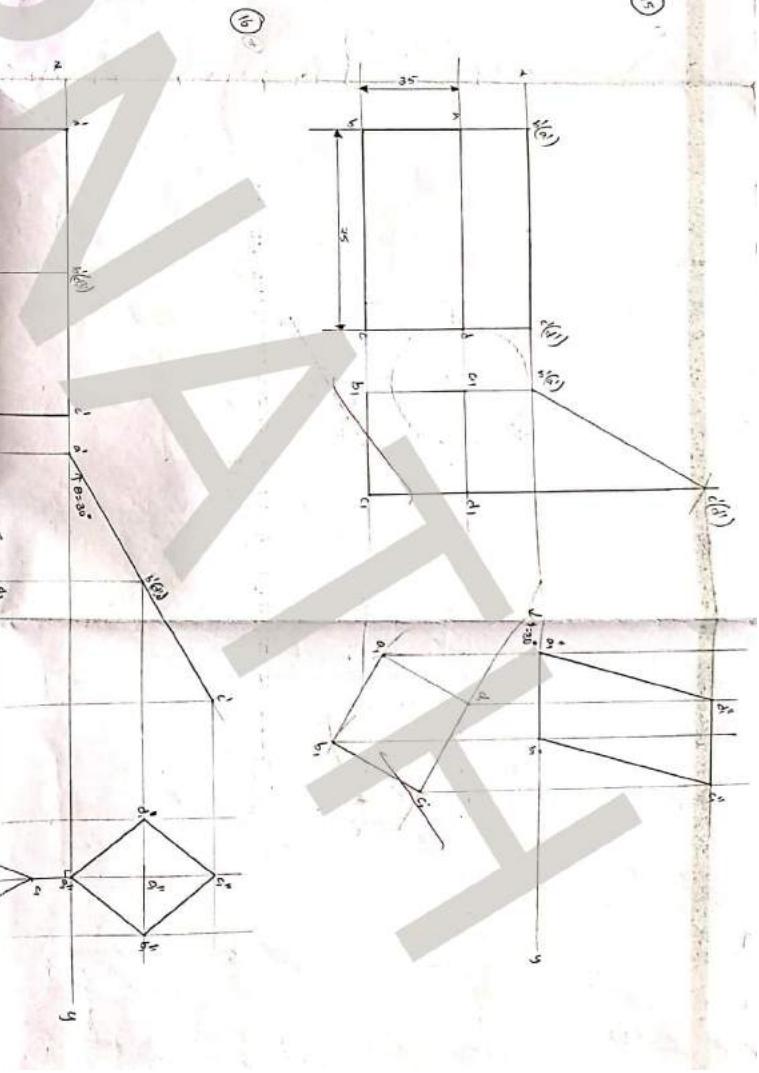
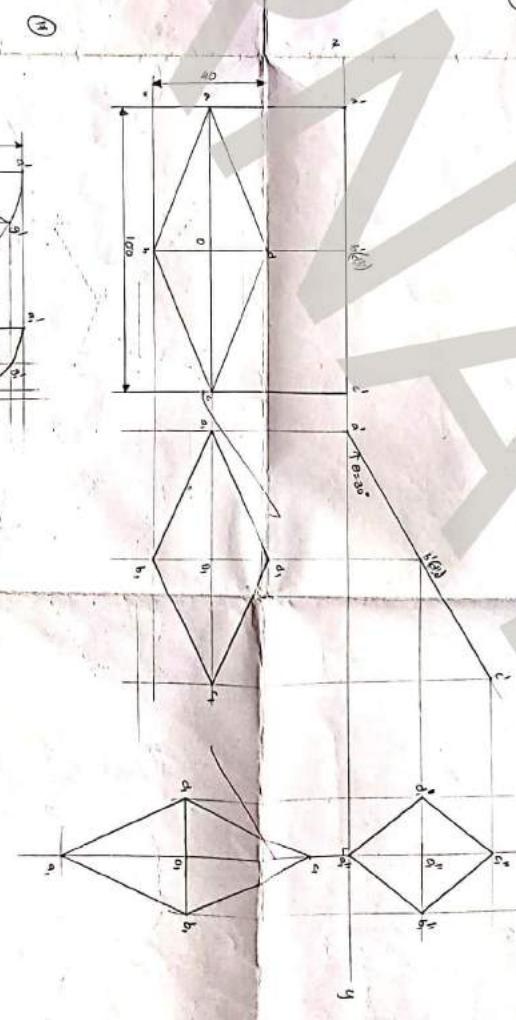
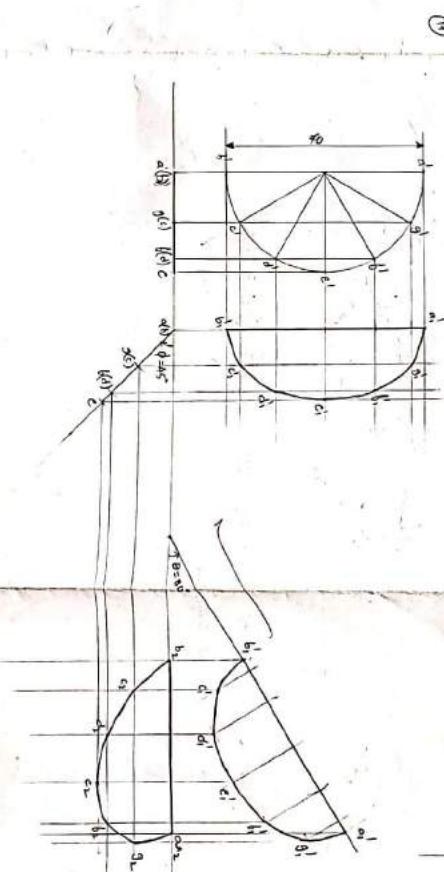
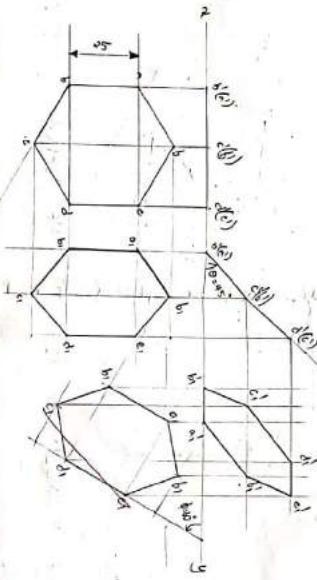
DATE: 05/10/2019

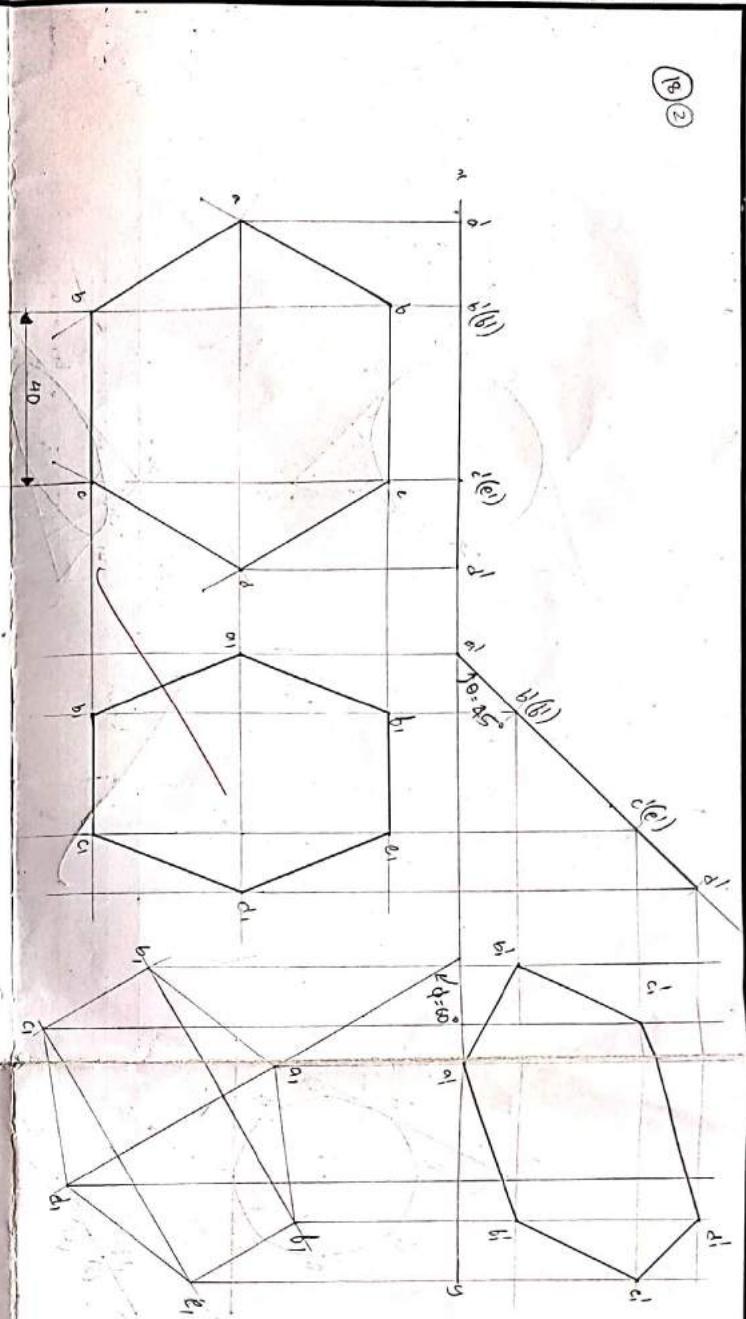
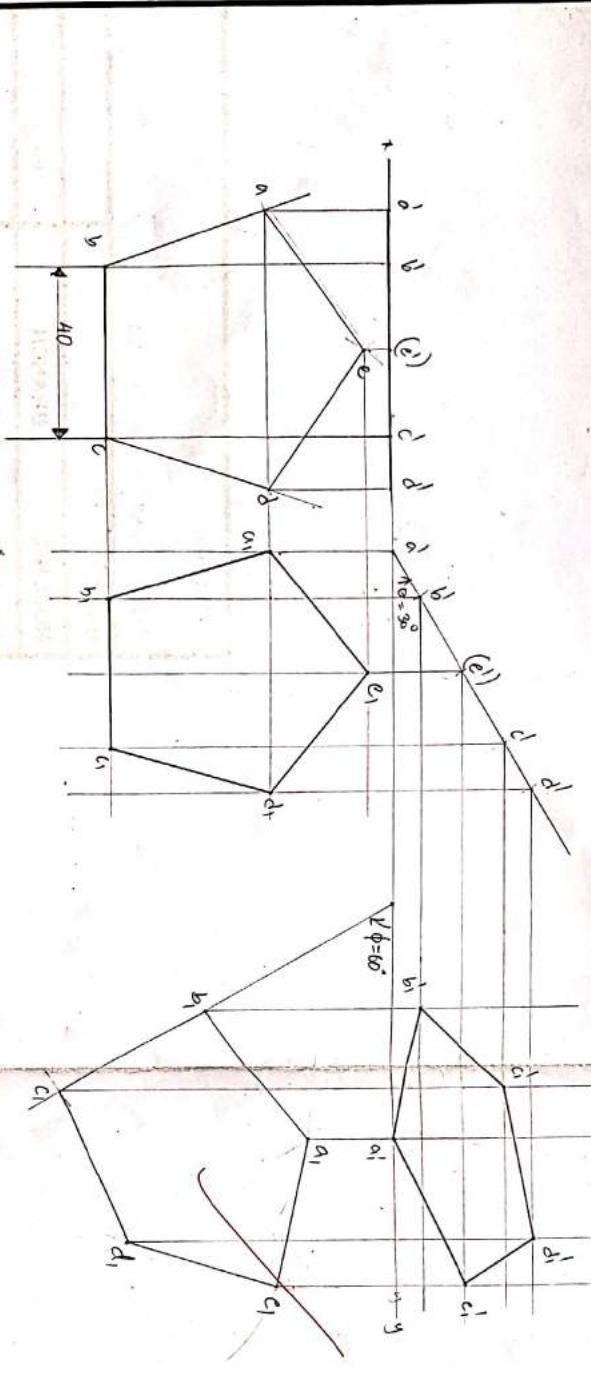
SCALE: 1:1

SHEET No: 14



PLANE IS INCLINED TO BOTH THE PLANES

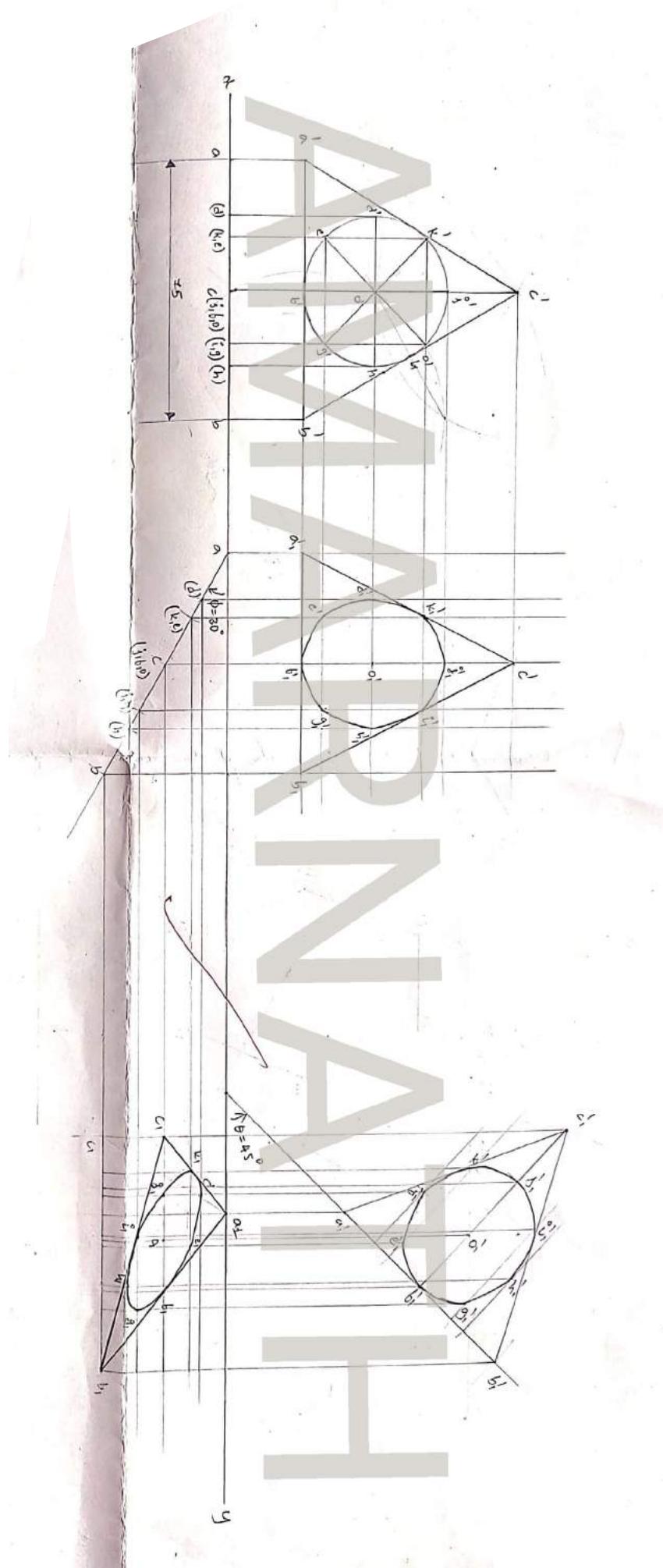




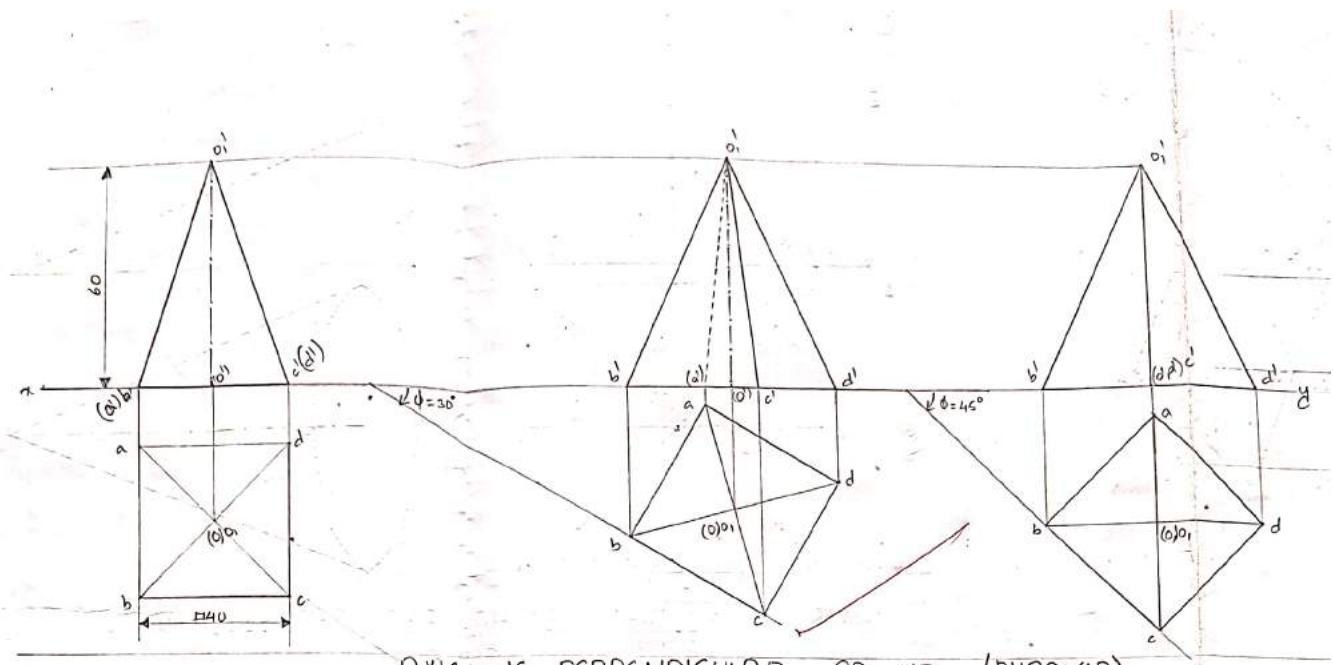
ALL DIMENSIONS ARE IN MM

COLLEGE:	M.G.I.T
TITLE:	PROJECTION OF PLANES
NAME:	G. AMARNAUTH
ROLL NO.	1930
SECTION	O.2
PLATE	

(8)

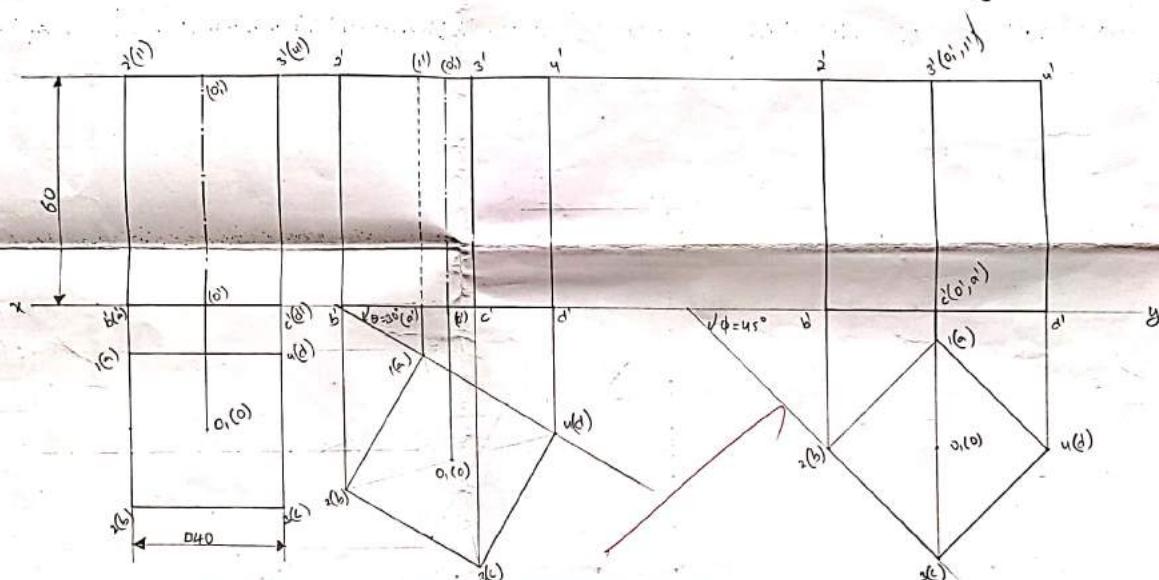


1



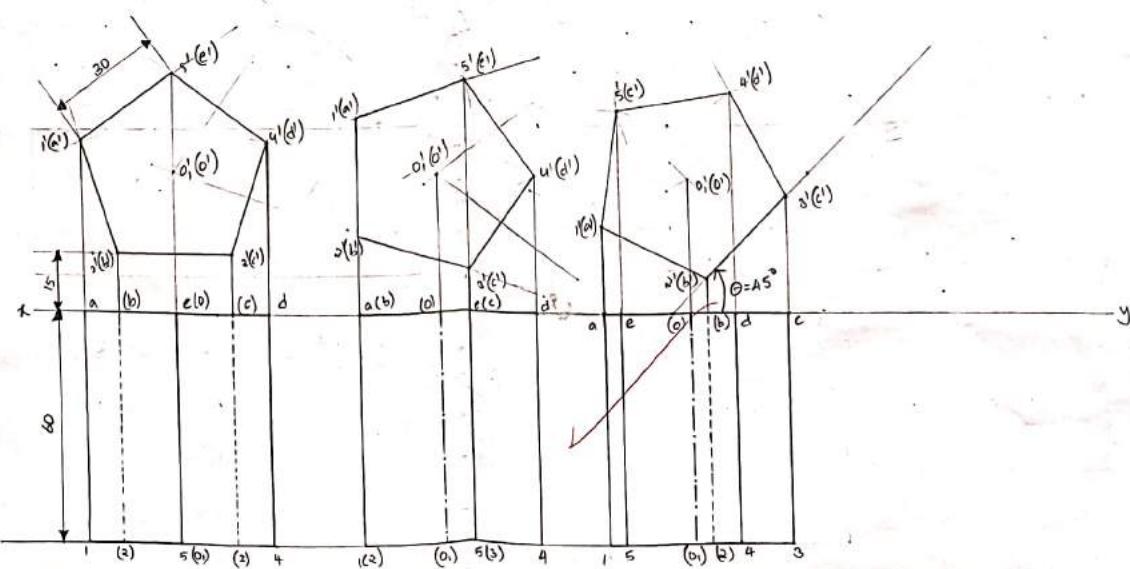
AXIS IS PERPENDICULAR TO HP (PYRAMID)

2



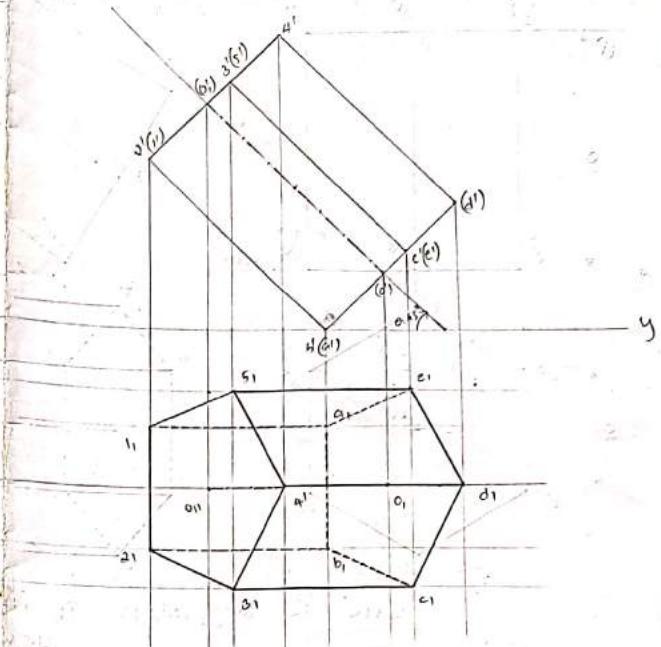
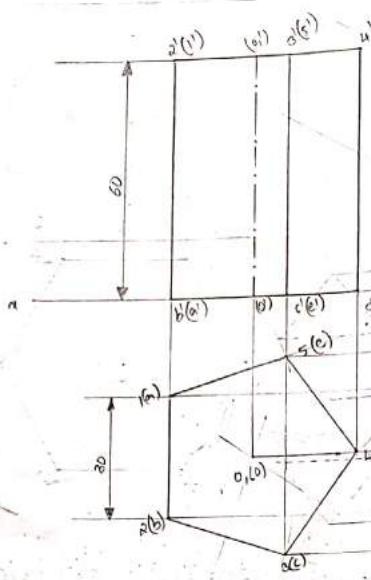
AXIS IS PERPENDICULAR TO HP (PRISM)

3



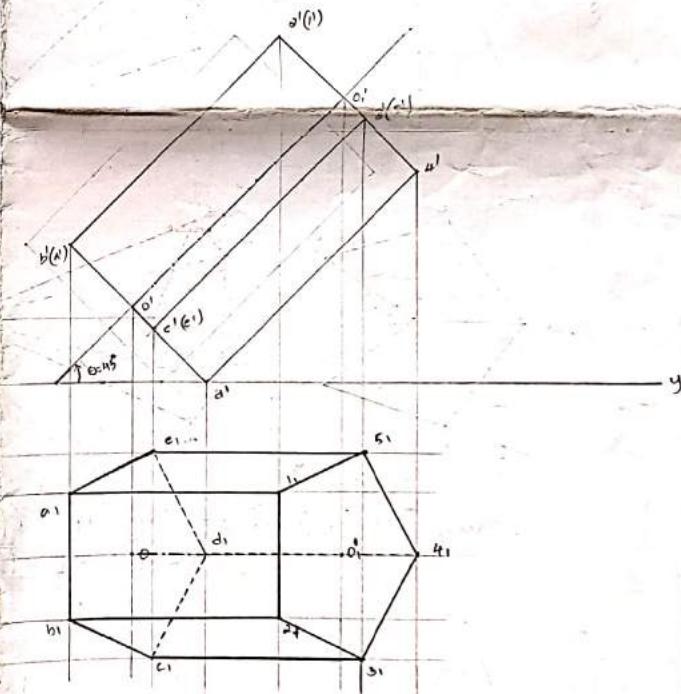
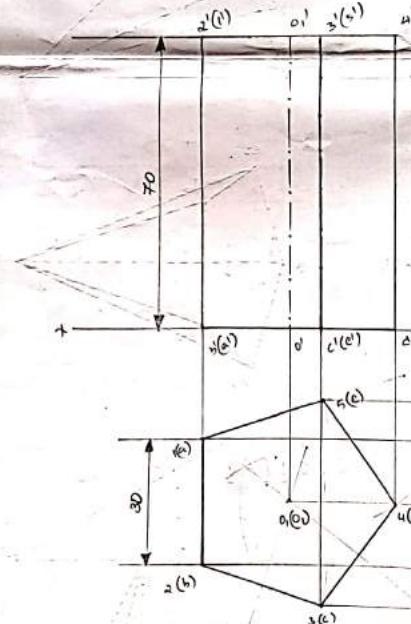
AXIS IS PERPENDICULAR TO VP.

(4)



AXIS IS INCLINED TO HP AND PARALLEL TO VP.
EDGE OF ITS BASE IN HP

(5)



AXIS IS INCLINED TO HP AND PARALLEL TO VP
CORNER IN THE HP

ALL DIMENSIONS ARE IN MM

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY
 GANDIPET, HYDERABAD - 500 075

TITLE: PROJECTIONS OF SOLIDS

NAME: G. AMARNATH

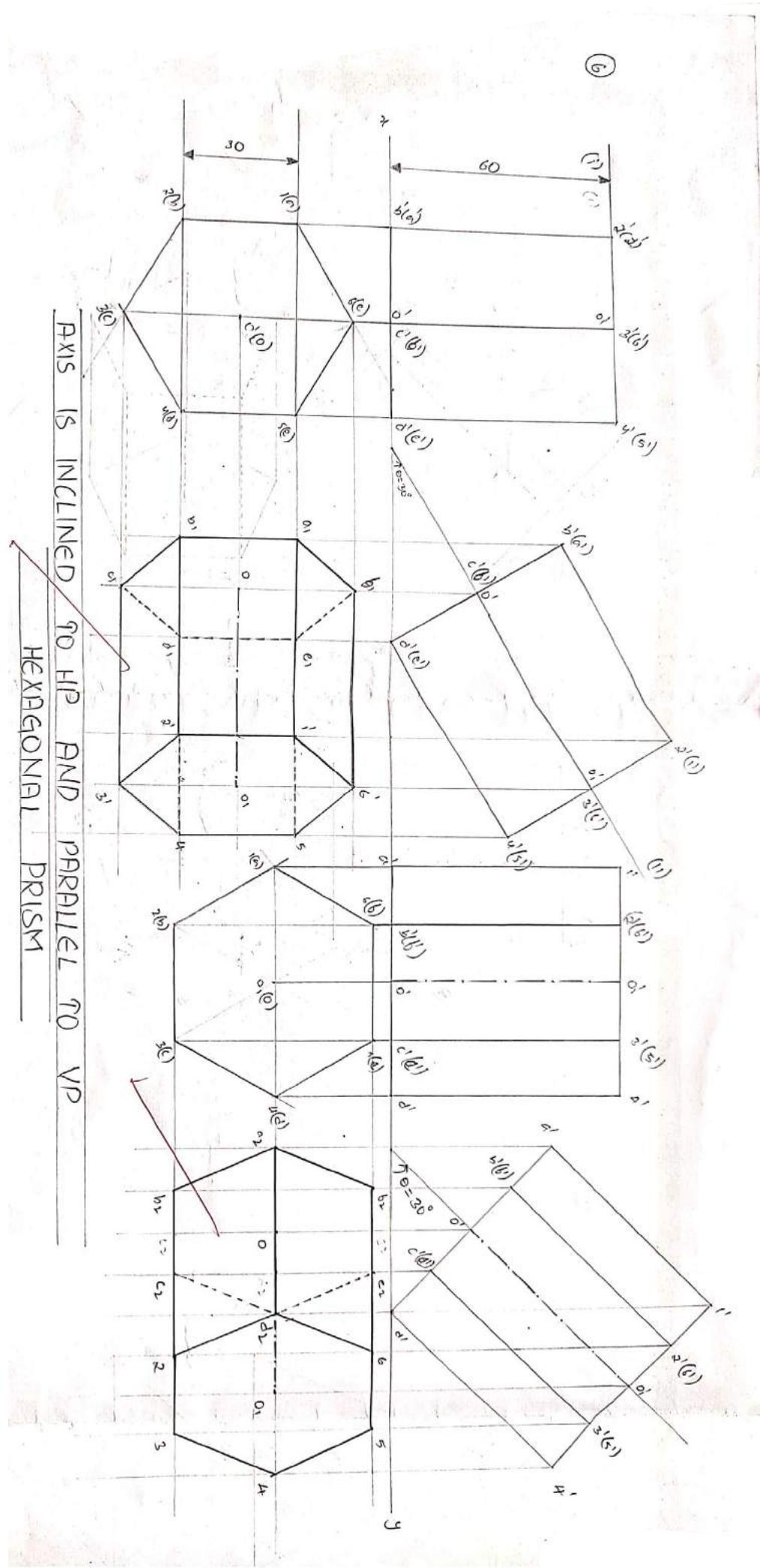
CLASS: ECE - 02

SCALE: 1:1

ROLL No. 19261A0440

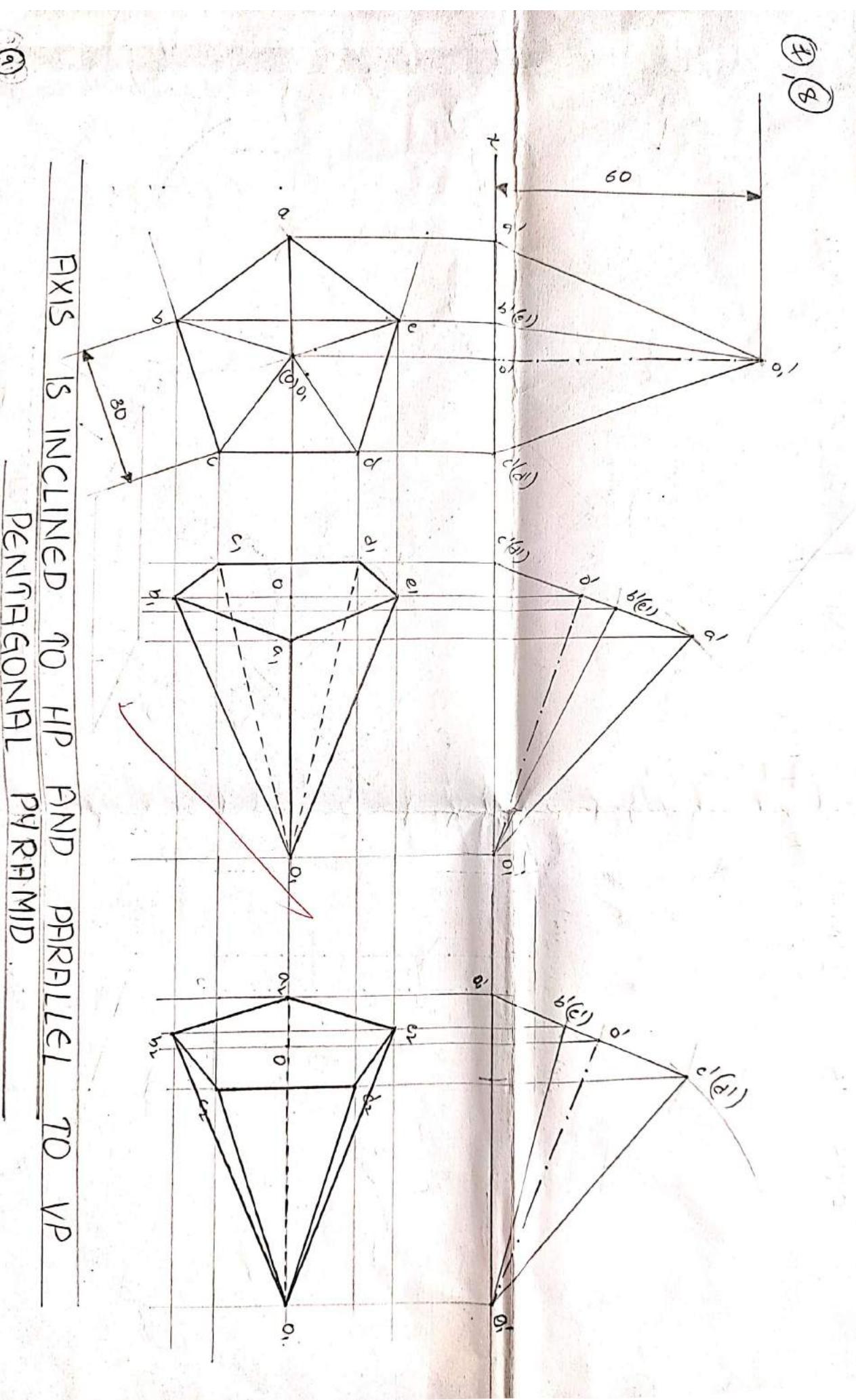
DATE: 24/11/19

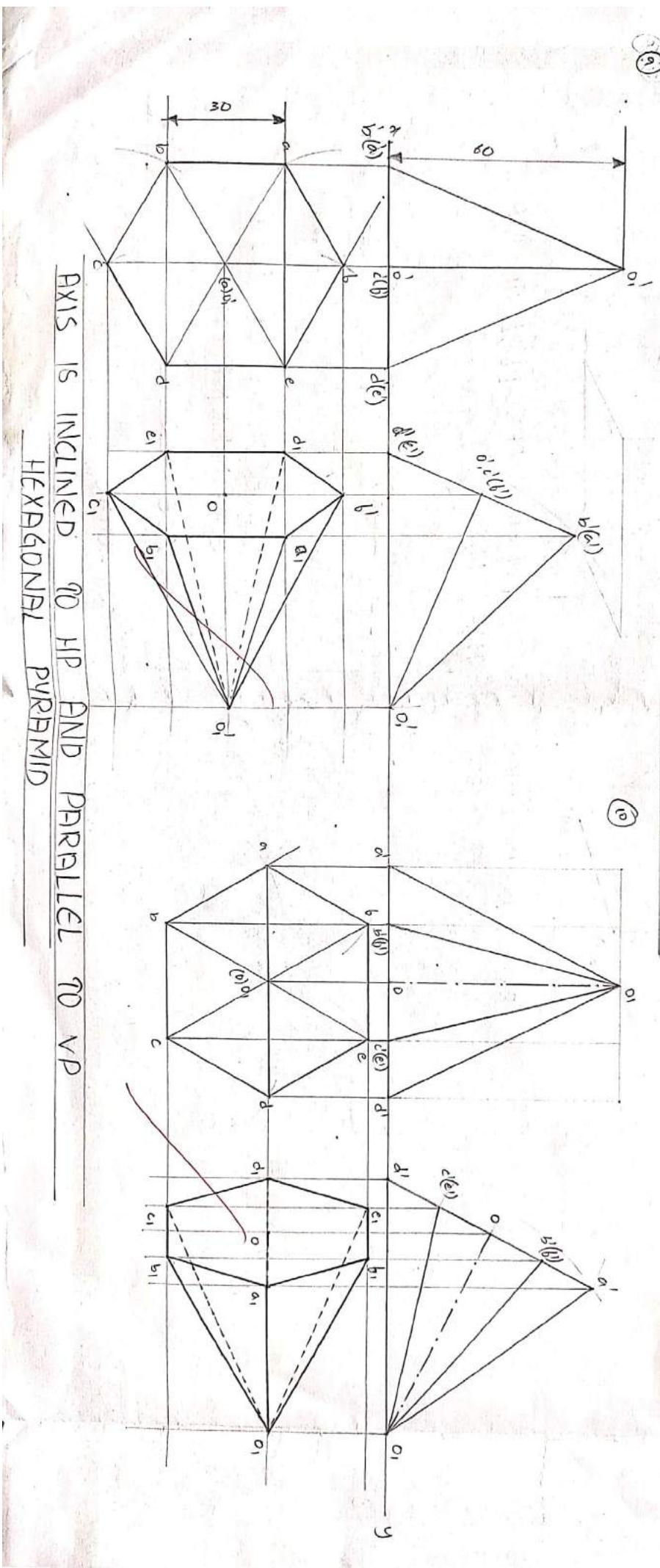
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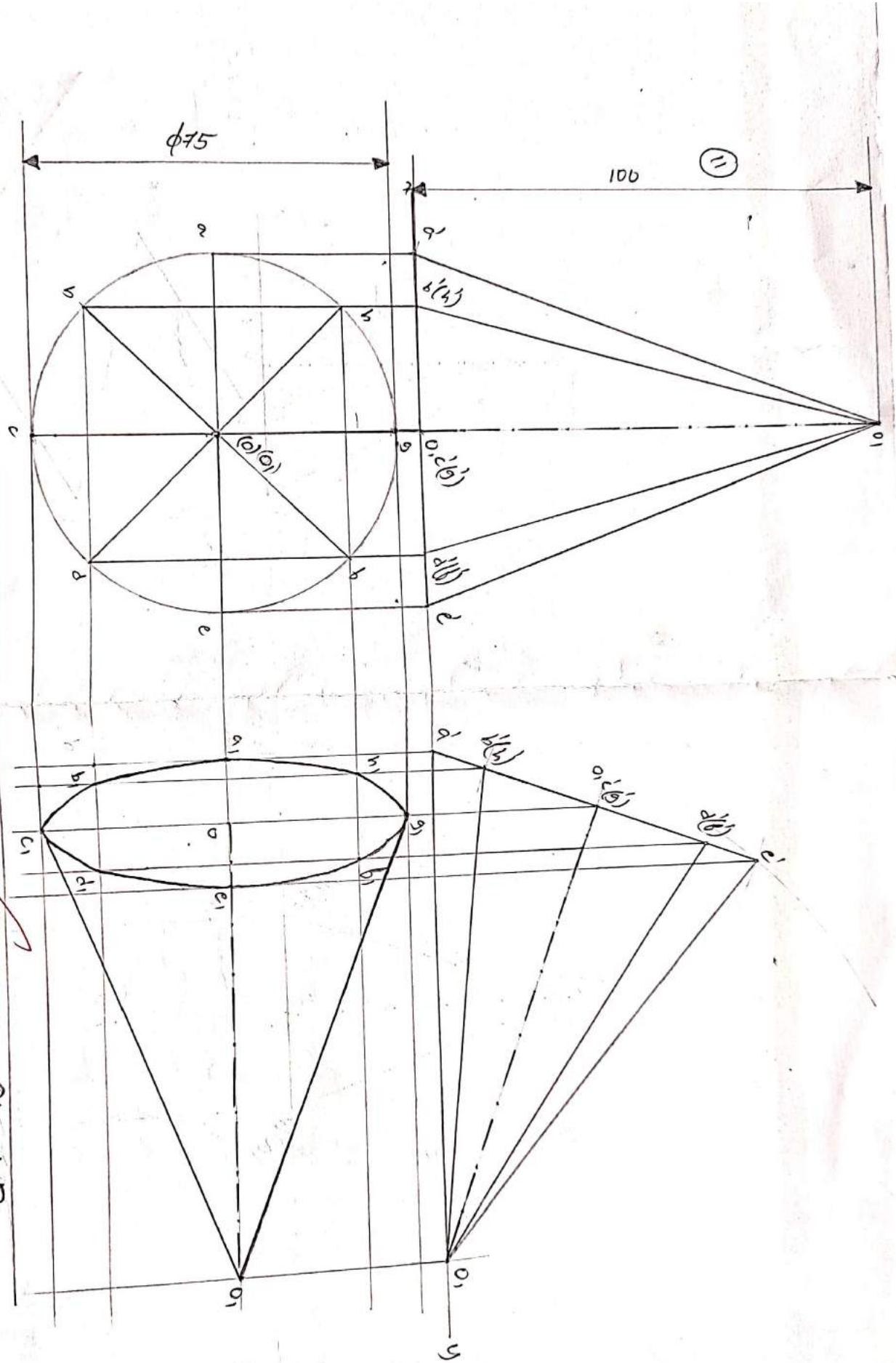
(6)

(7), (8)

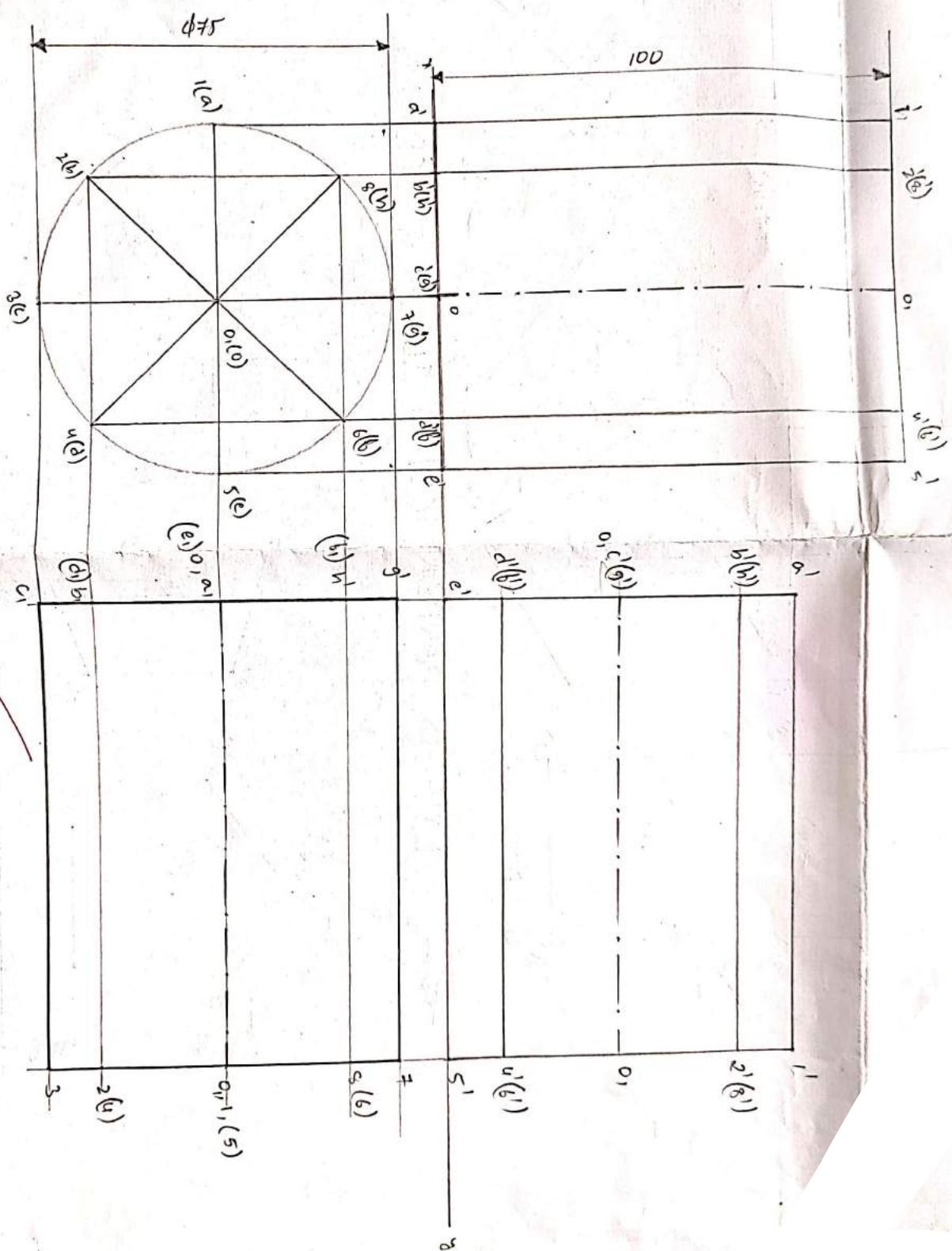




~~AXIS IS INCLINED TO HP AND PARALLEL TO VP
CONE~~



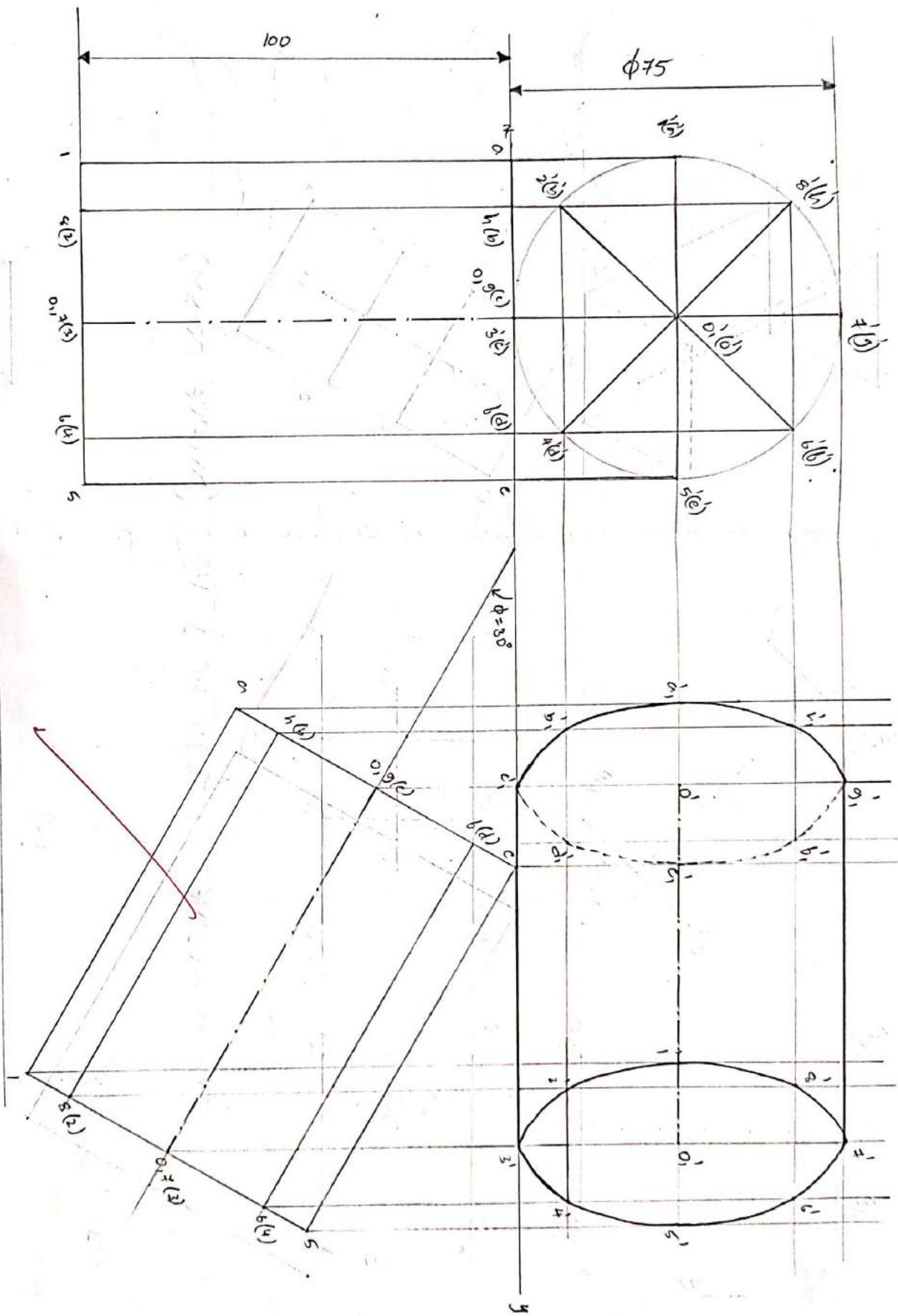
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AXIS IS INCLINED TO HP AND PARALLEL TO VP

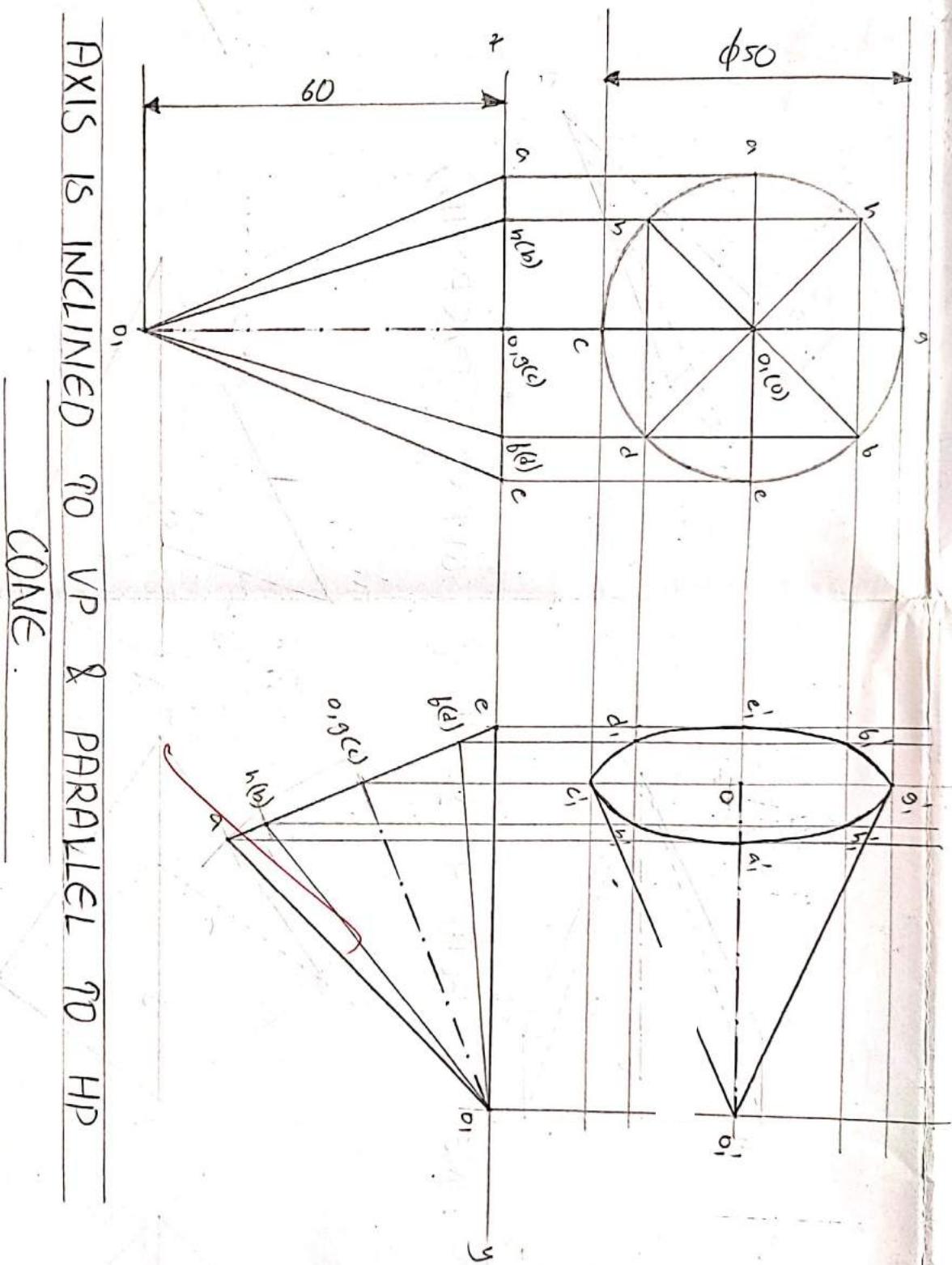
CYLINDER

(13)

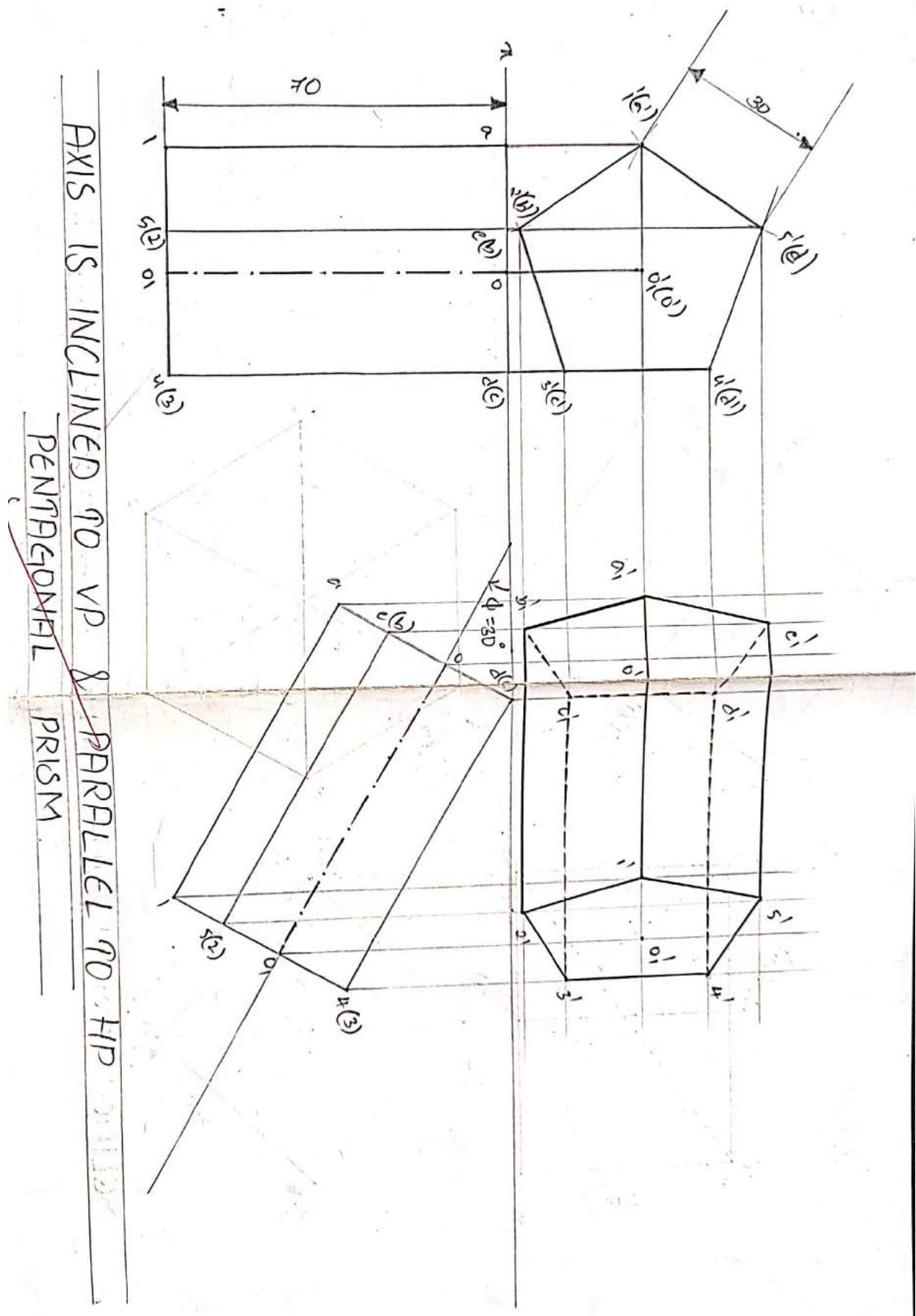


AXIS IS INCLINED TO VP & PARALLEL TO HP
CYLINDER

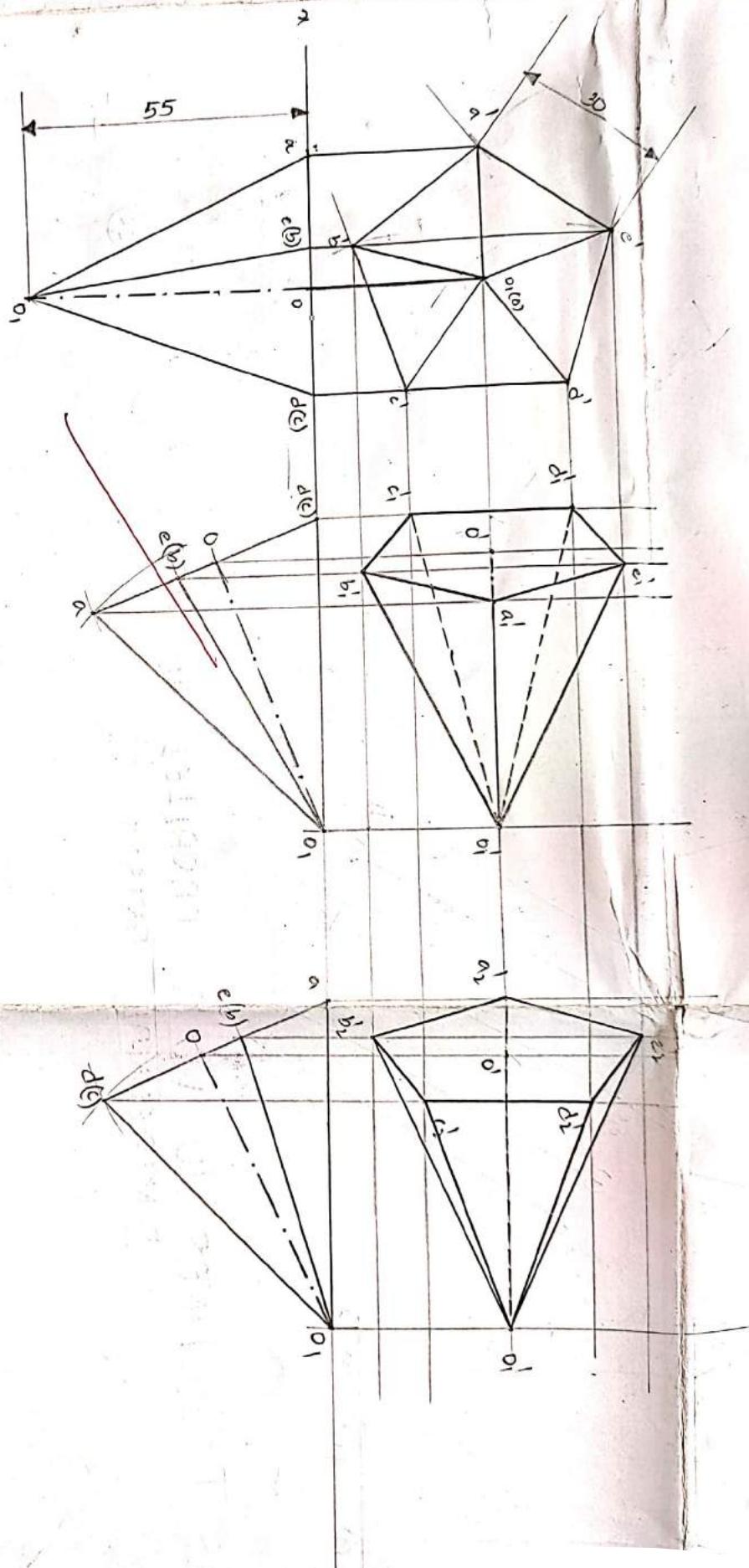
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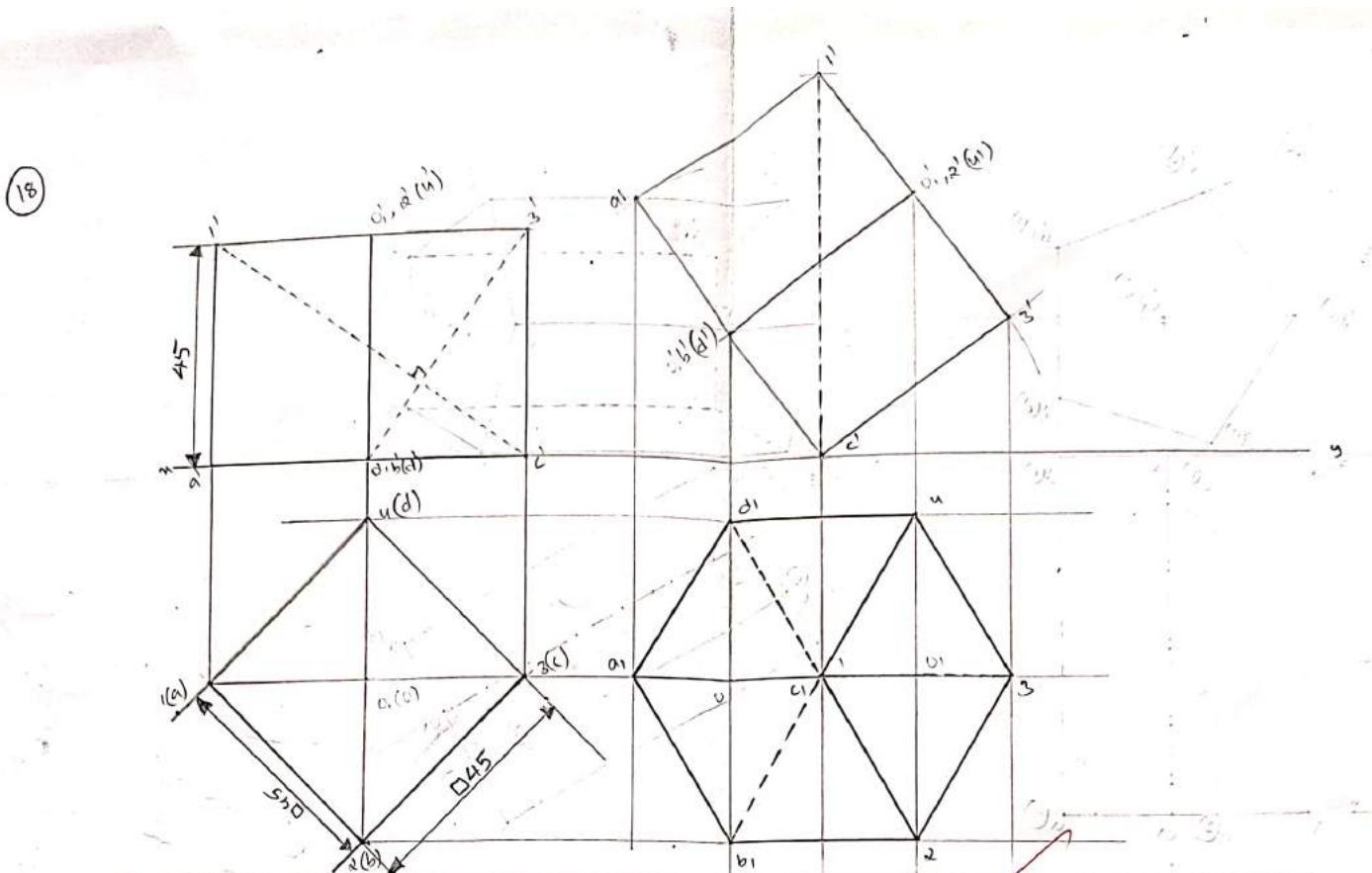
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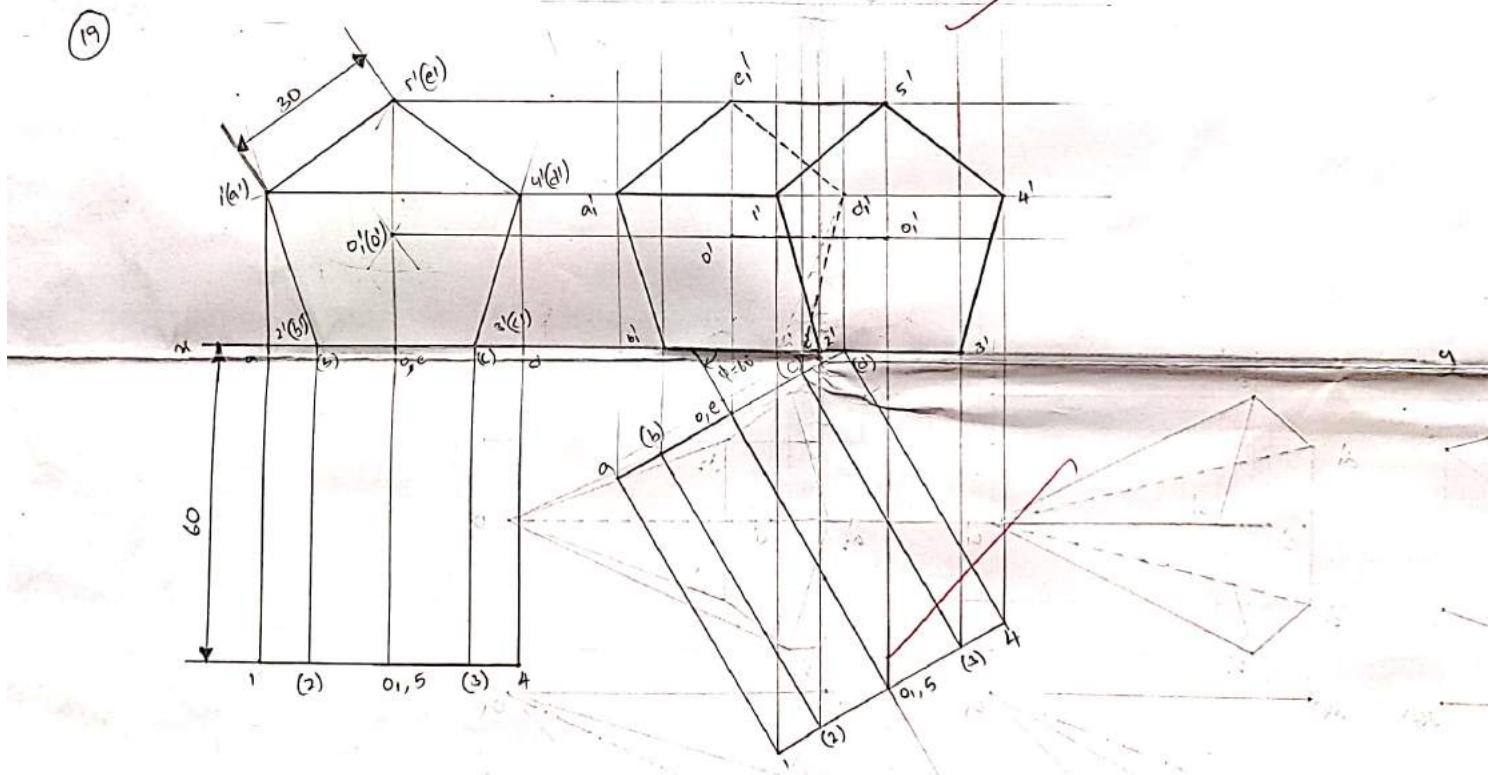
(15), (16)



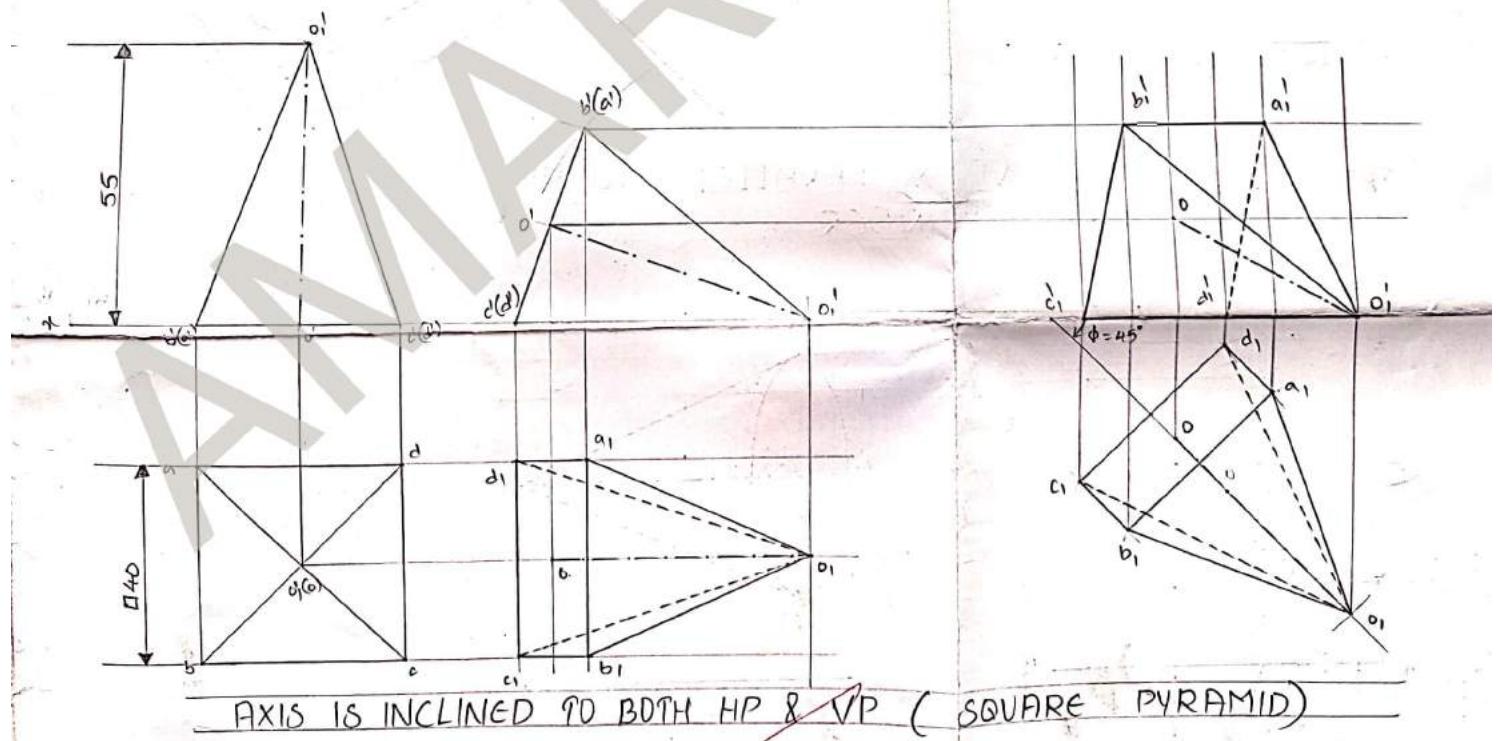
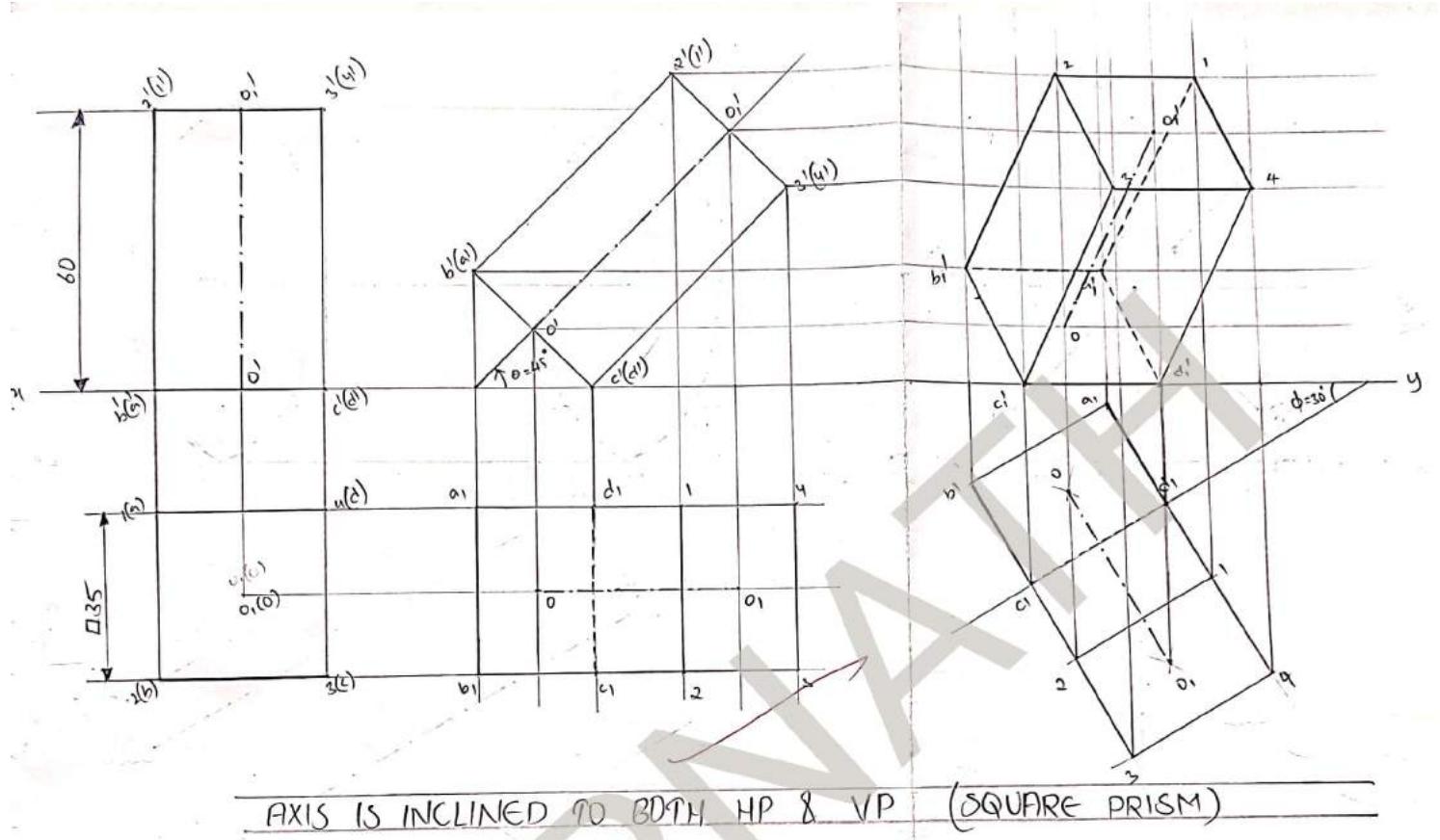
AXIS IS INCLINED TO VP & PARALLEL TO HP
PENTAGONAL PYRAMID.

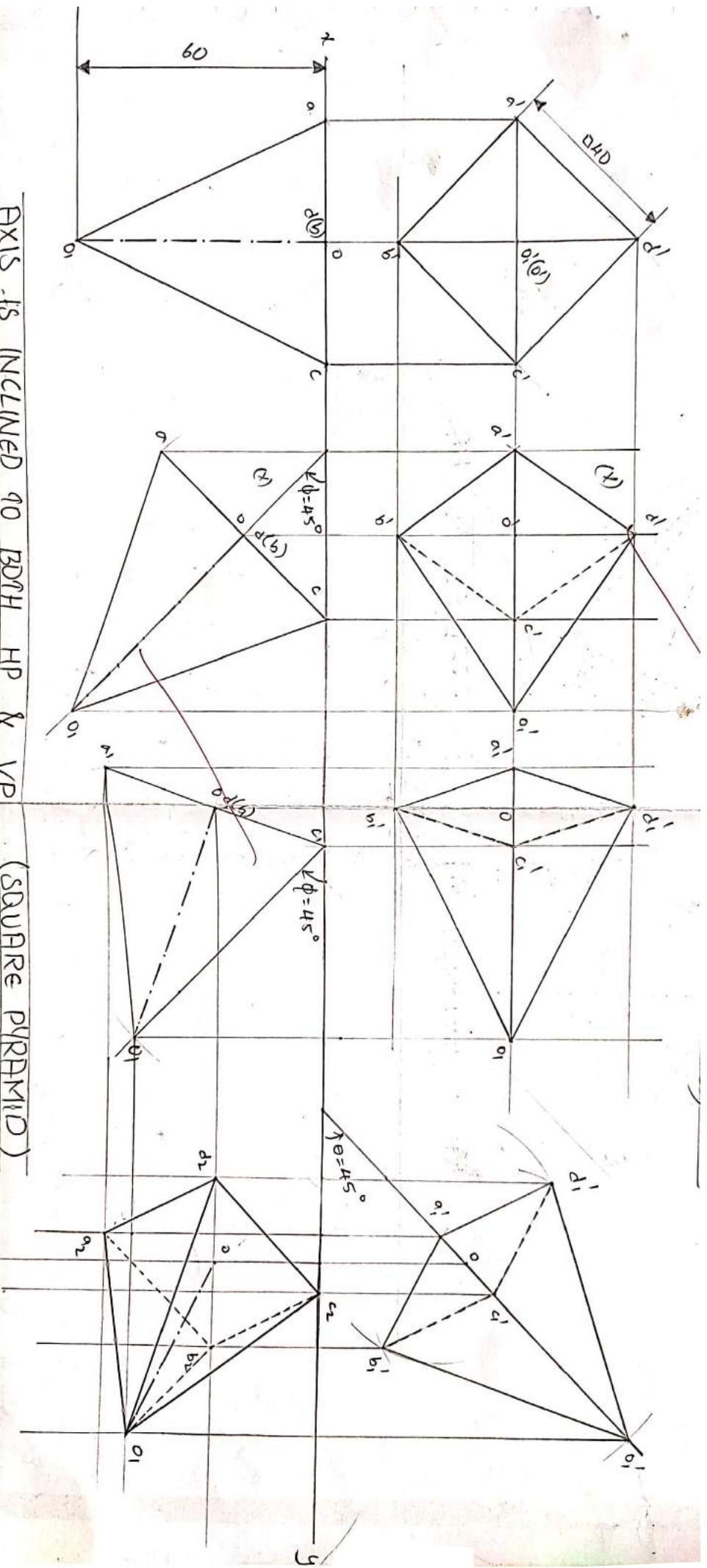


~~SQUARE PRISM WITH SOLID DIAGONAL VERTICAL TO~~



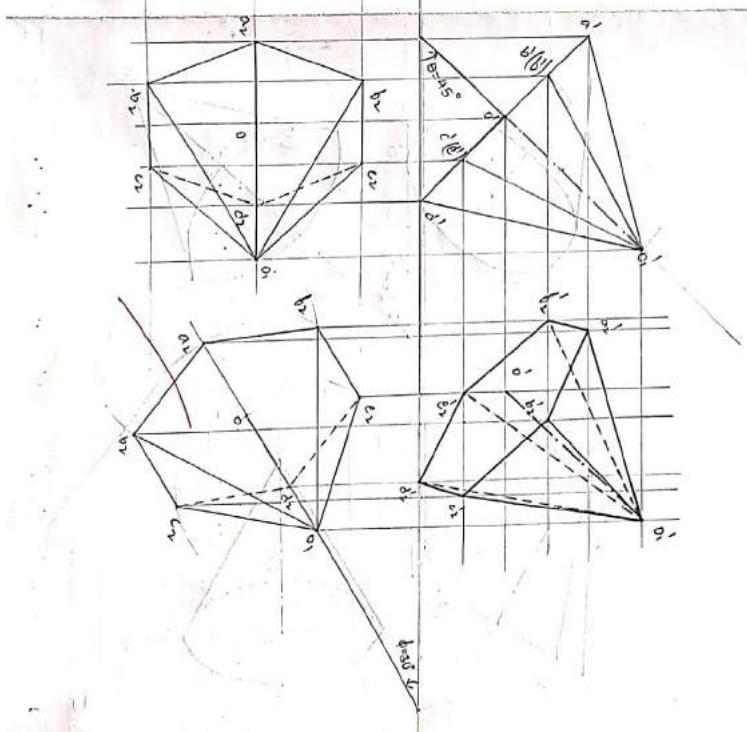
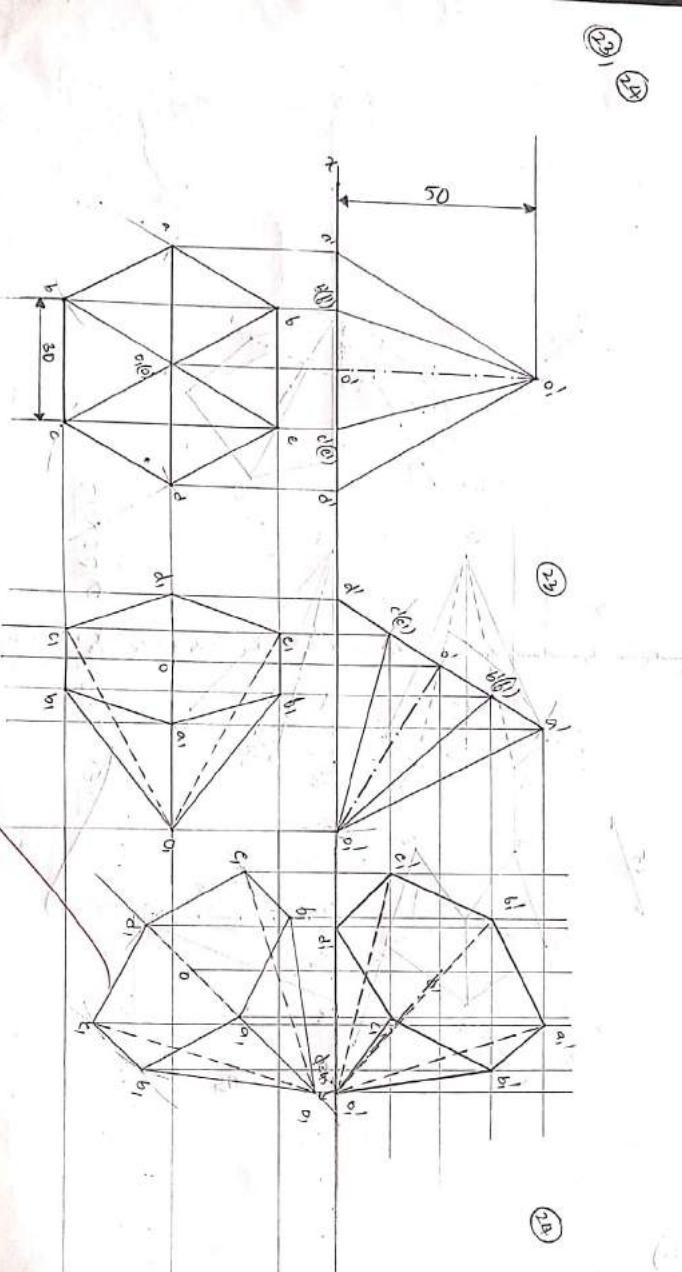
AXIS IS INCLINED TO VP & PARALLEL TO HP
PENTAGONAL PRISM



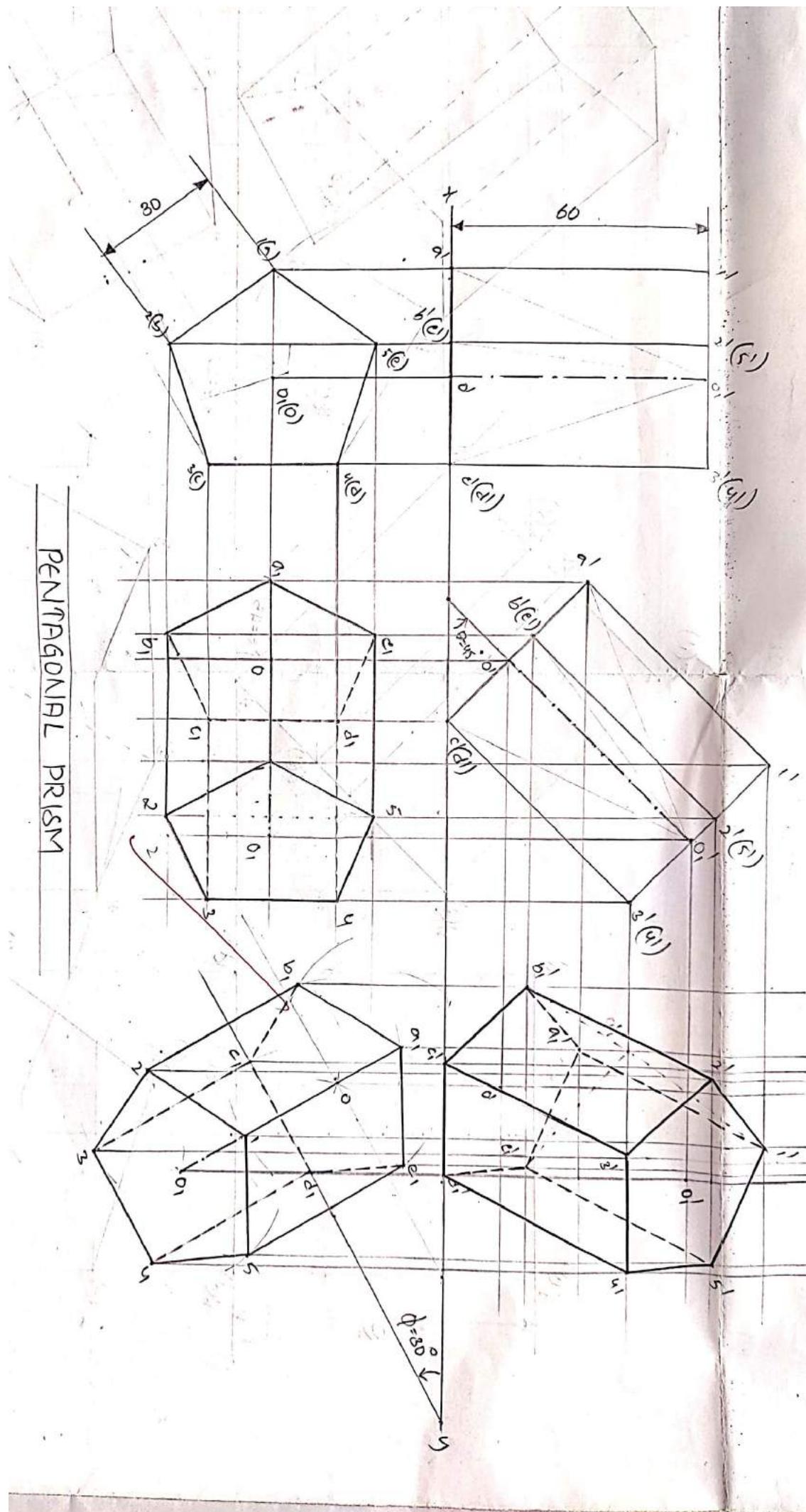


AXIS IS INCLINED TO BOTH HP & VP (SQUARE PYRAMID)

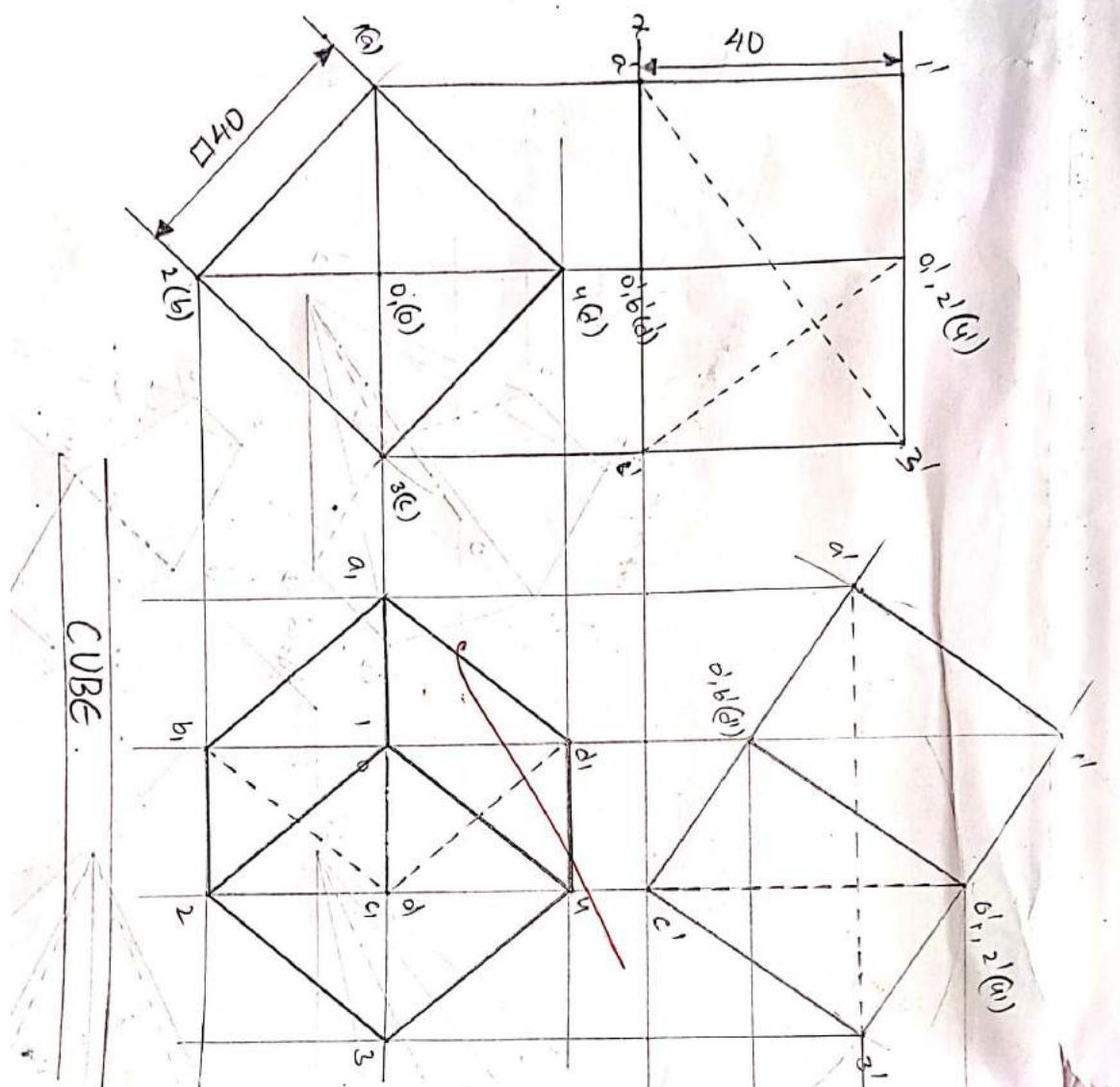
HEXAGONAL PYRAMID.



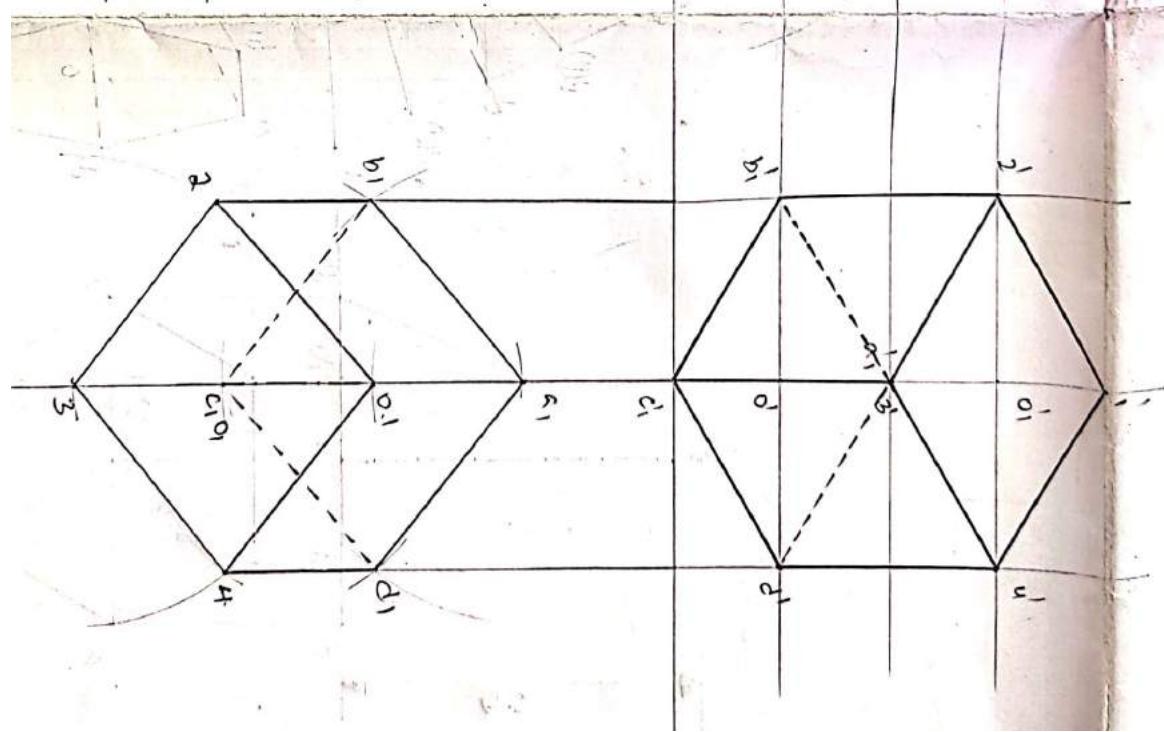
PENTAGONAL PRISM

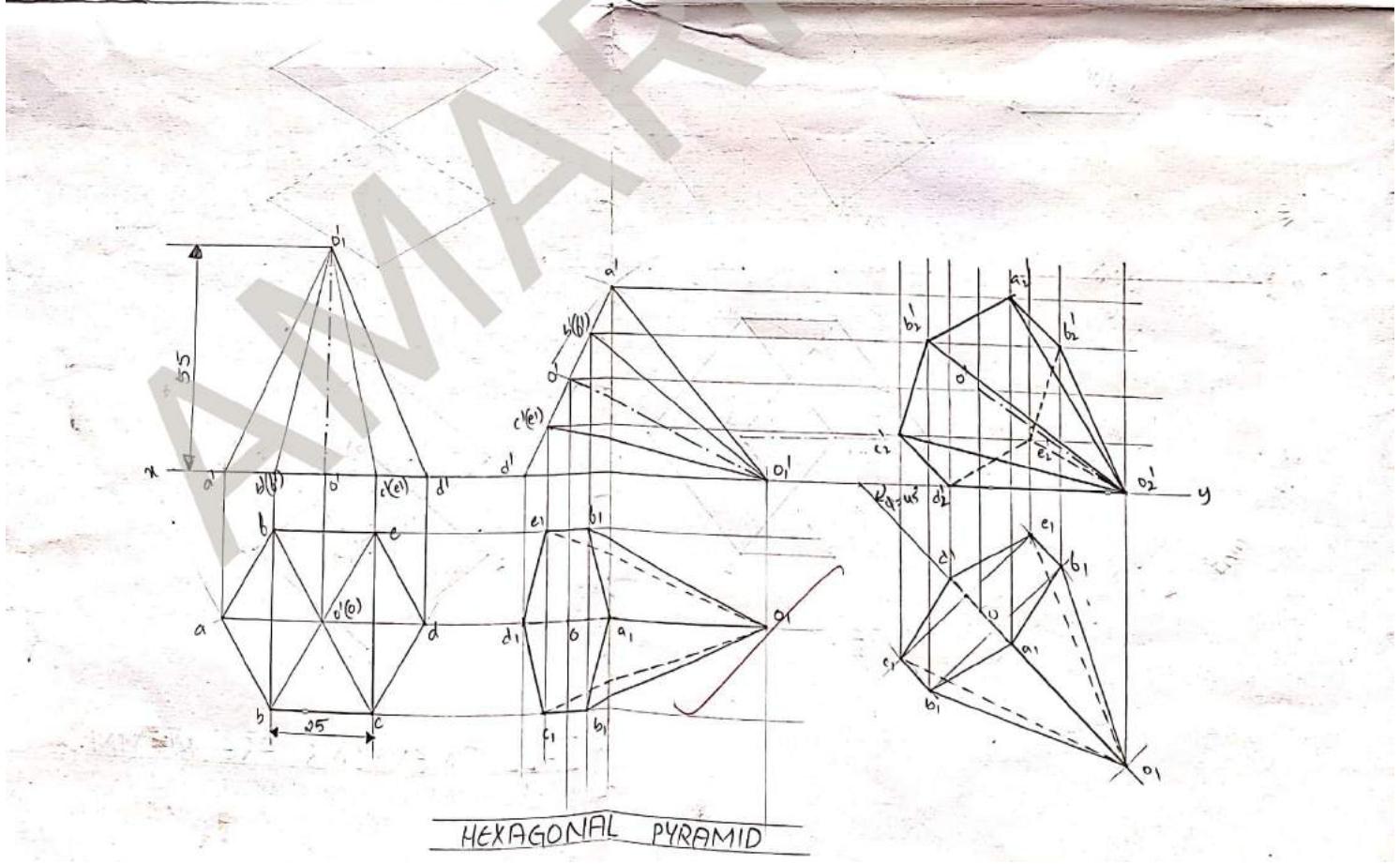
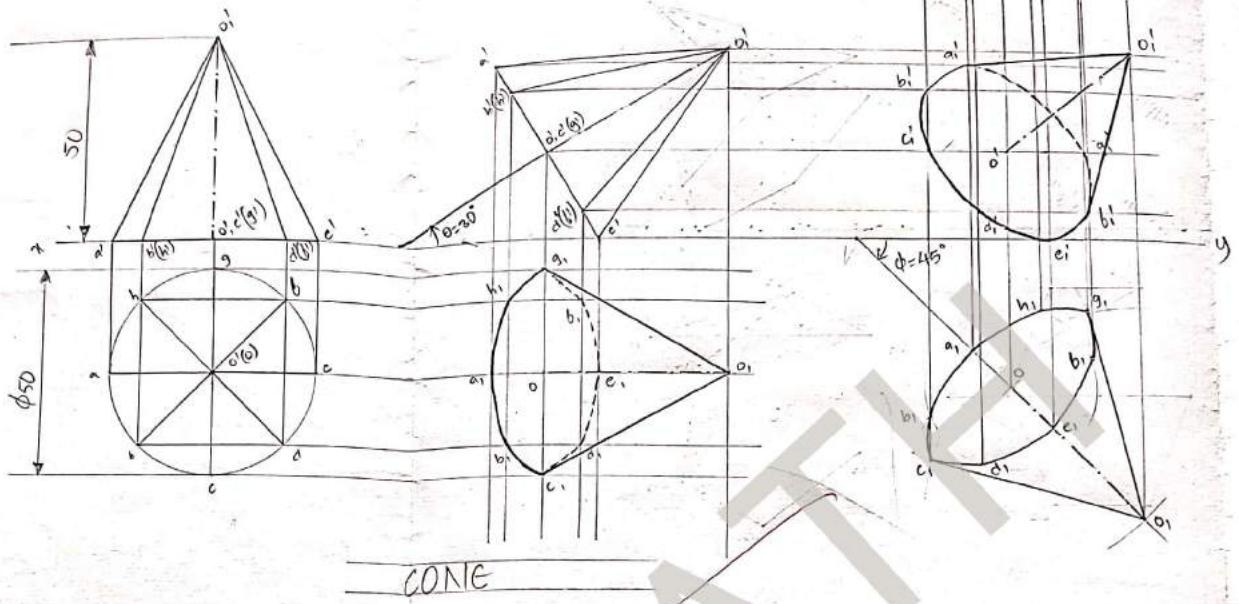


(26)



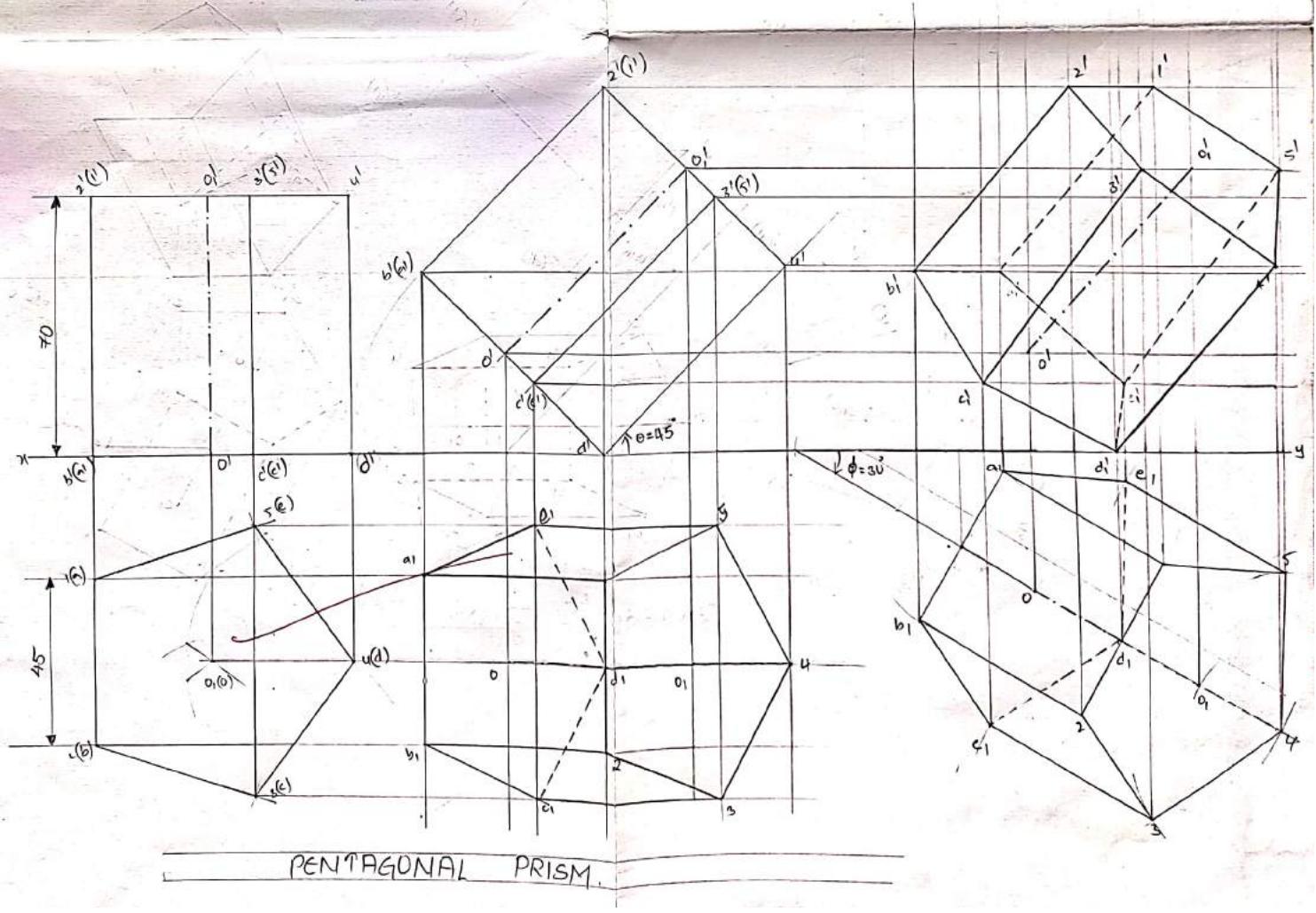
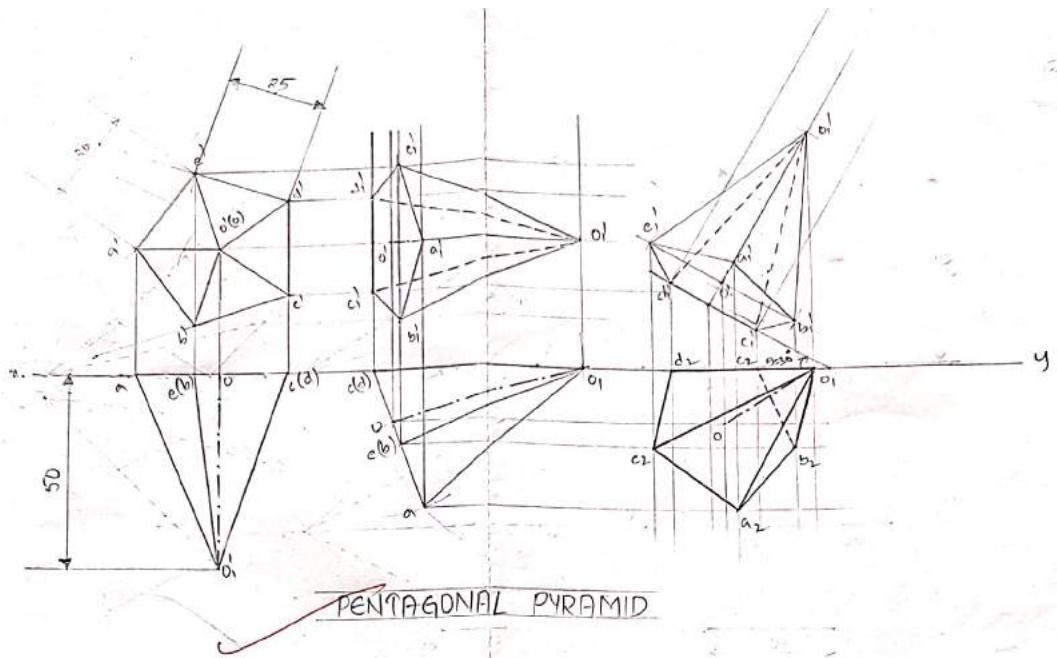
CUBE





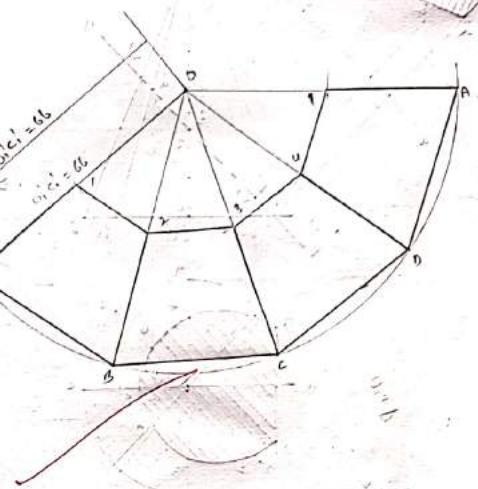
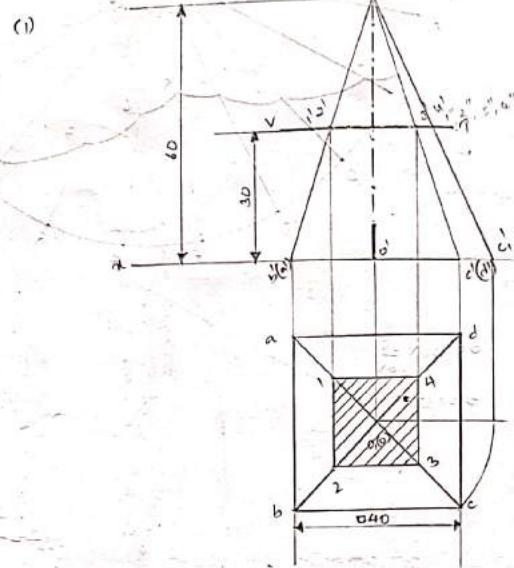
(30)

(28)

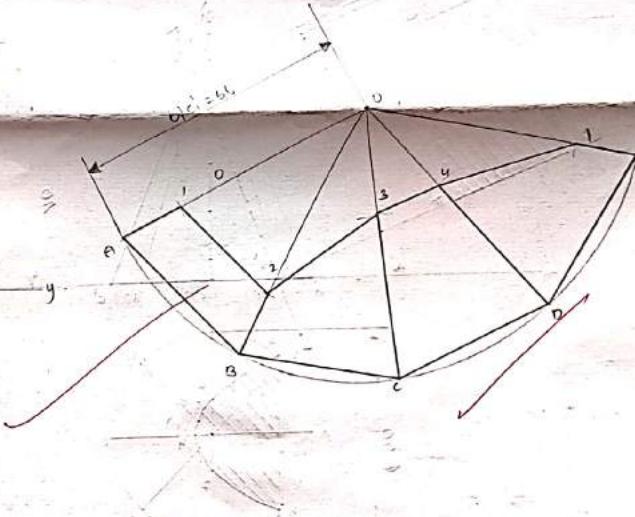
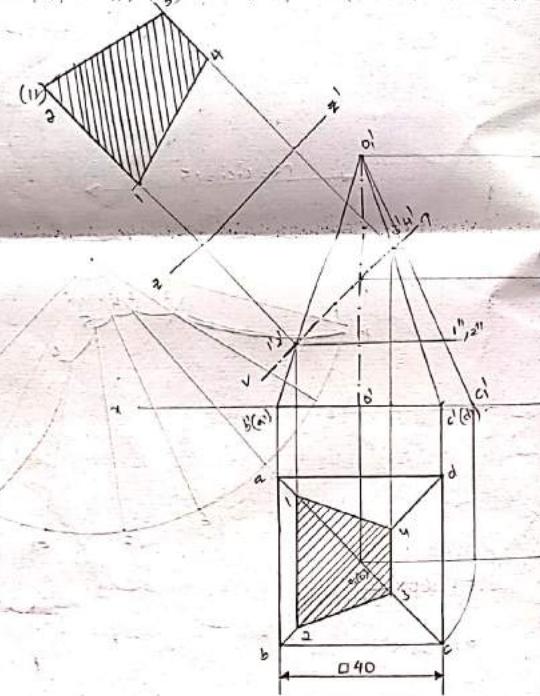


MODEL 1 : SECTION AND DEVELOPMENT OF SURF

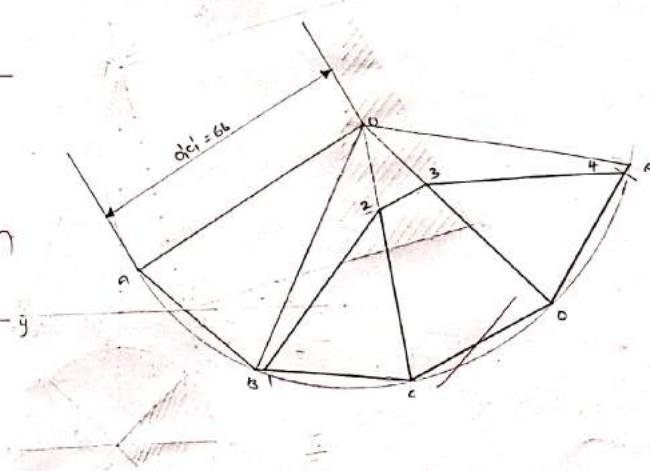
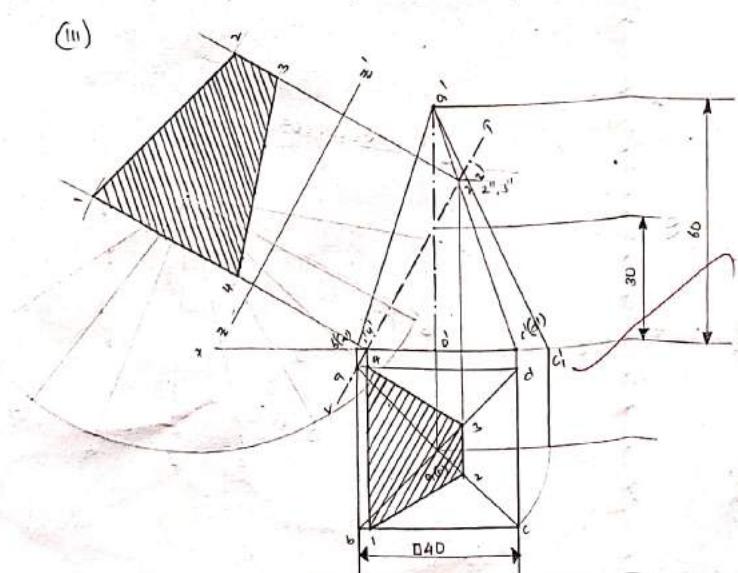
(I)



(II)

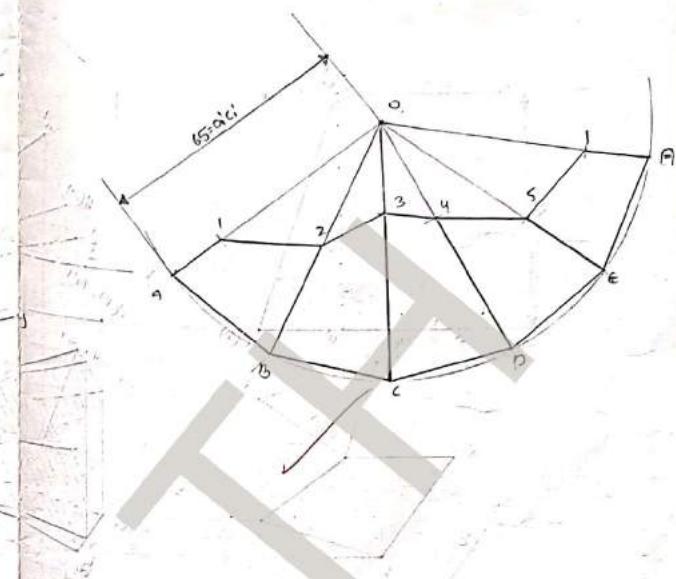
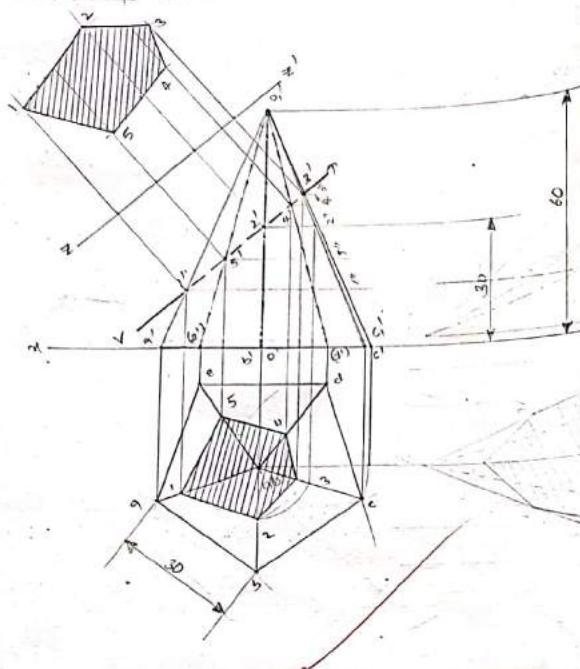


(III)

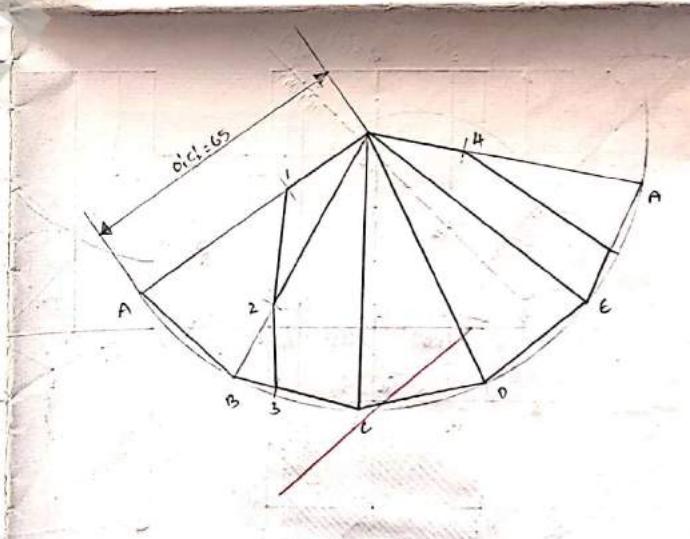
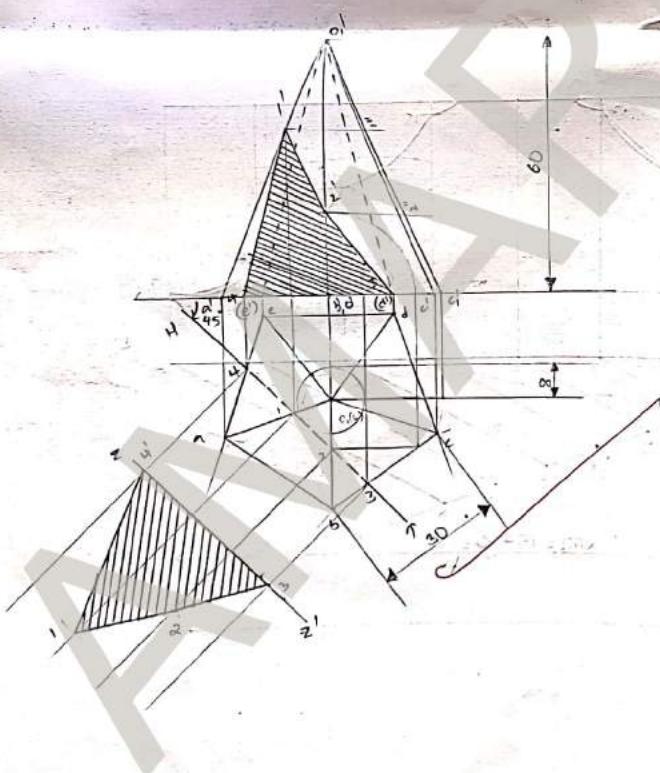


FACE OF PYRAMIDS (1+4)

(2)



(3)



*STH
10/10
13/11/19*

ALL DIMENSIONS ARE IN MM.

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY
GANDIPET, HYDERABAD - 500 075

TITLE: SECTION OF SOLIDS AND DEVELOPMENT OF S

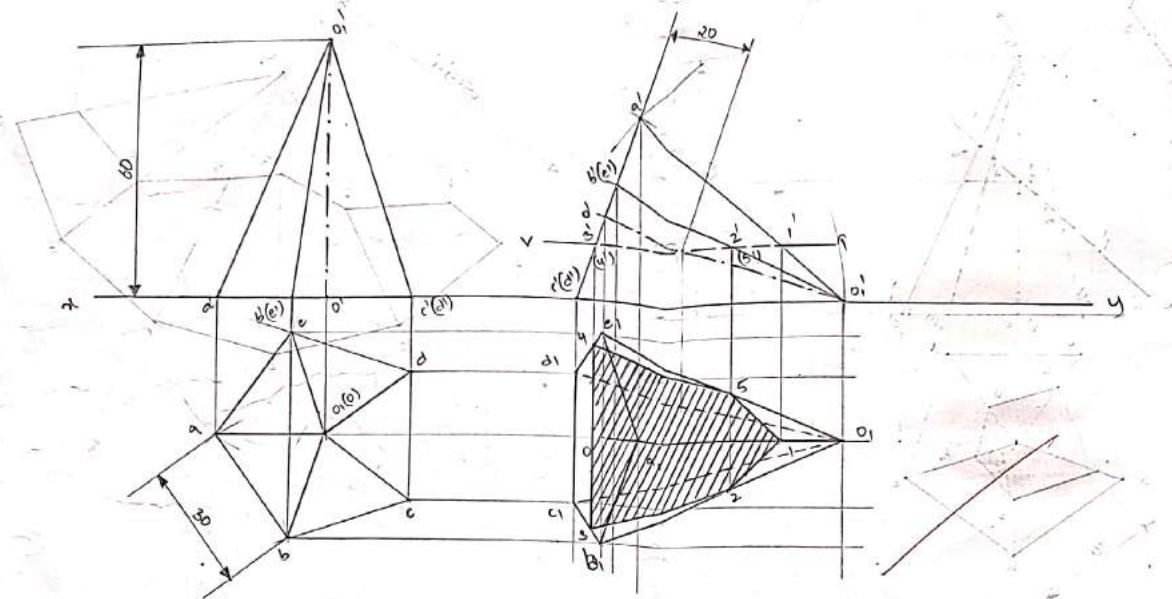
NAME: G. AMARNATH

CLASS: ECE - 02

SCALE: 1:1

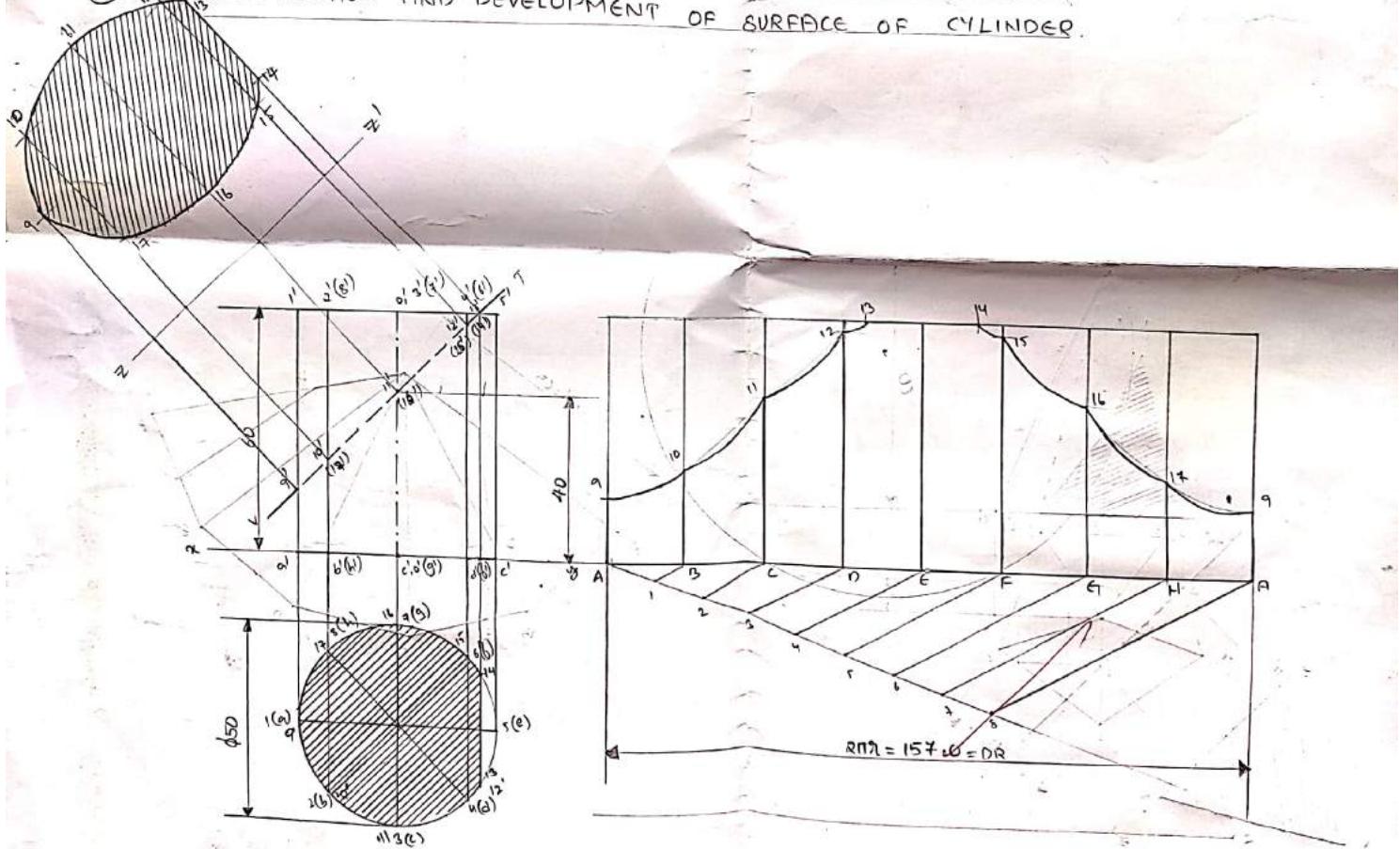
ROLL No. 470 DATE: 05/12/2019 SHEET No:

(4)

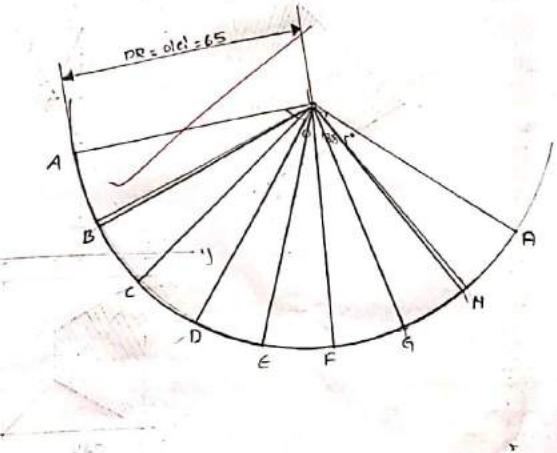
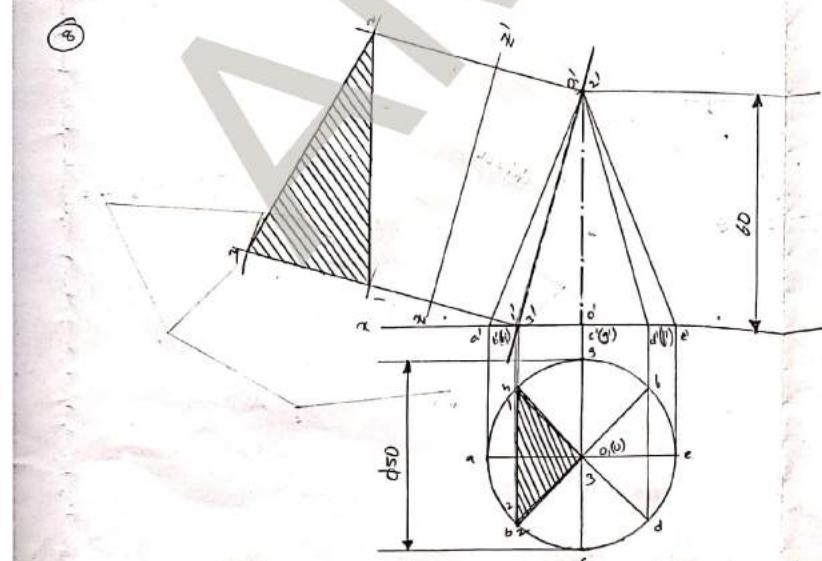
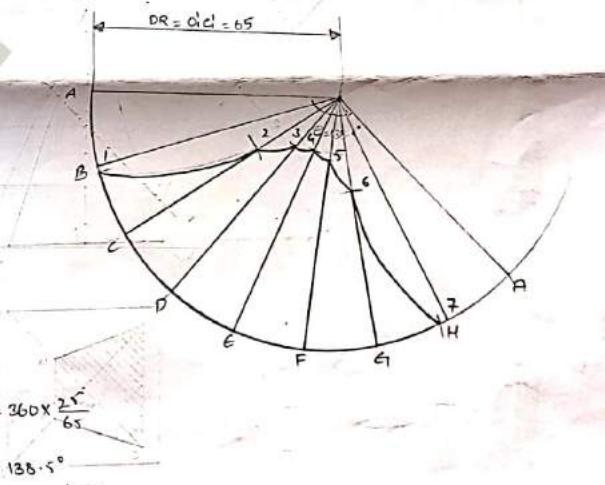
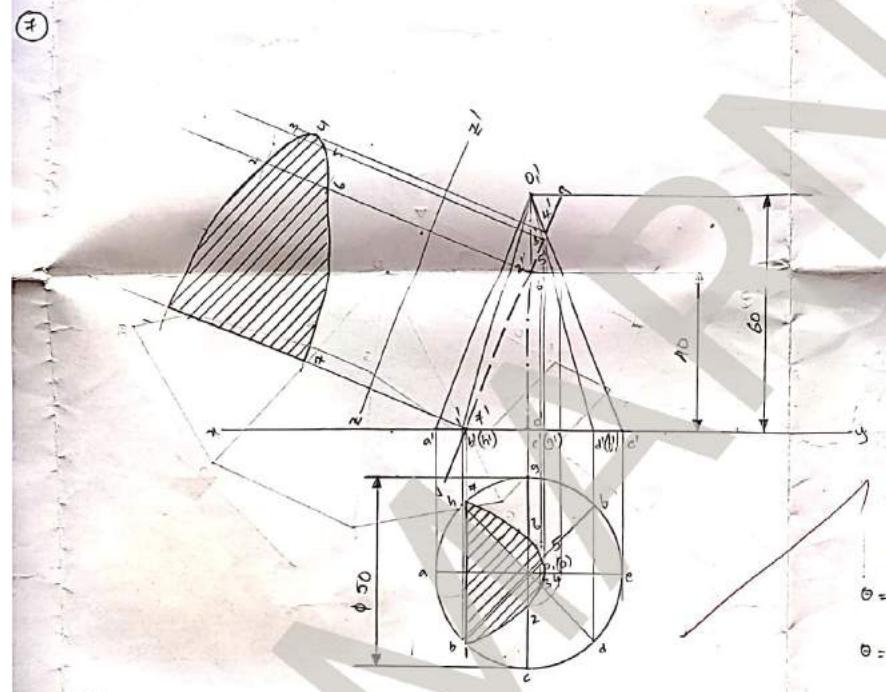
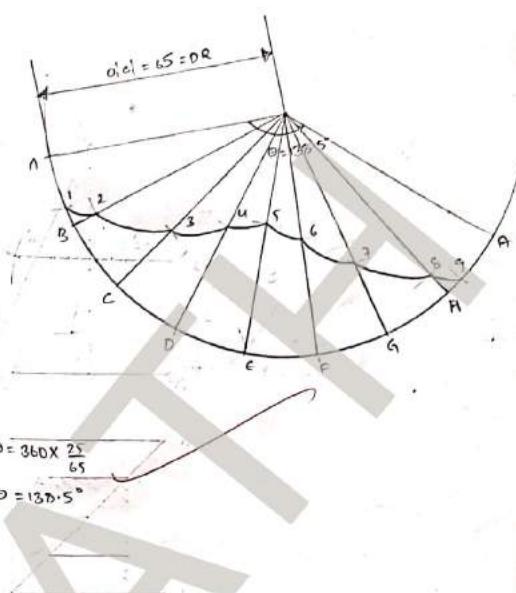
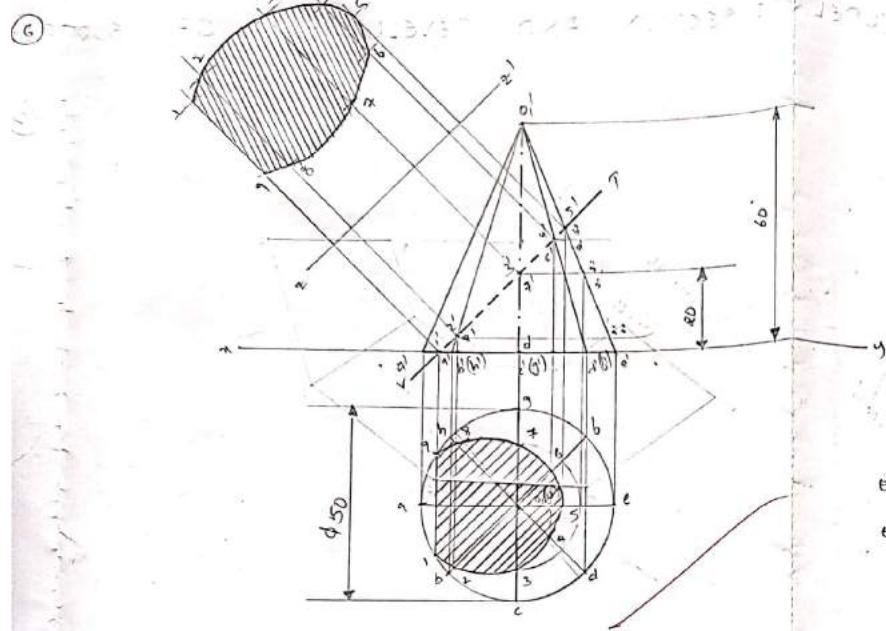


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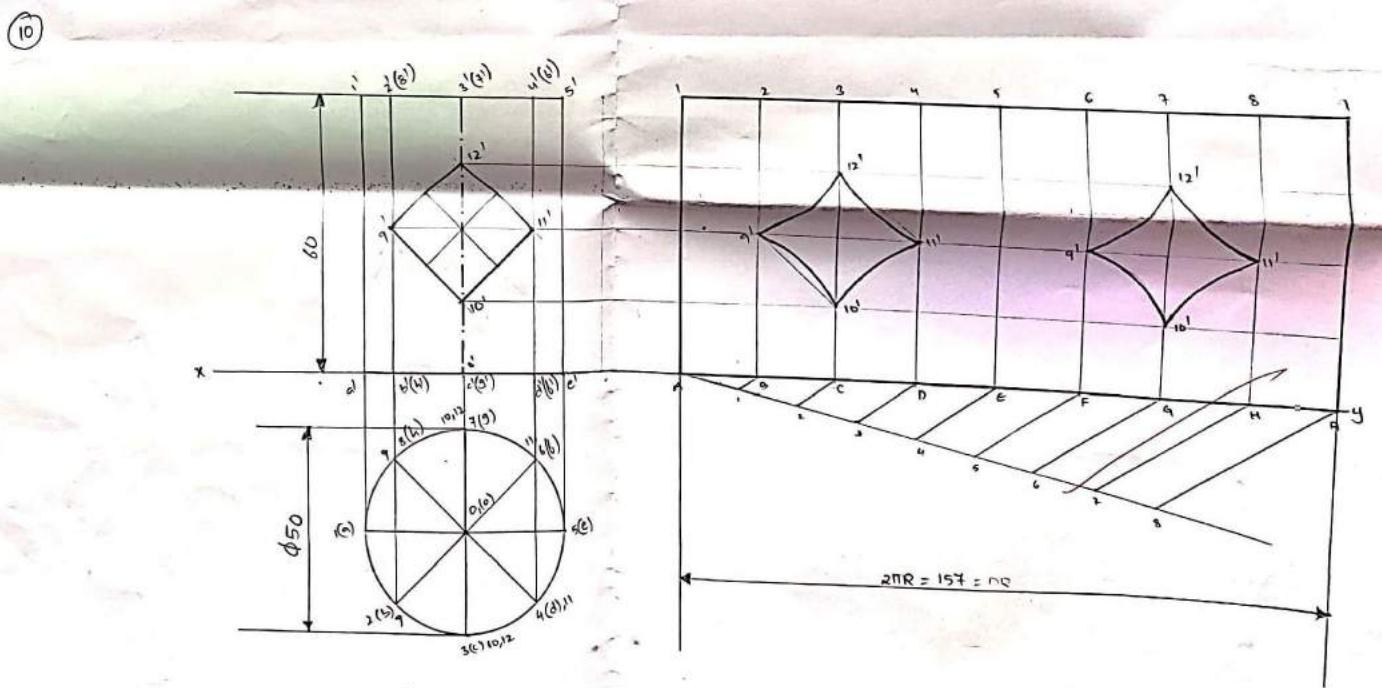
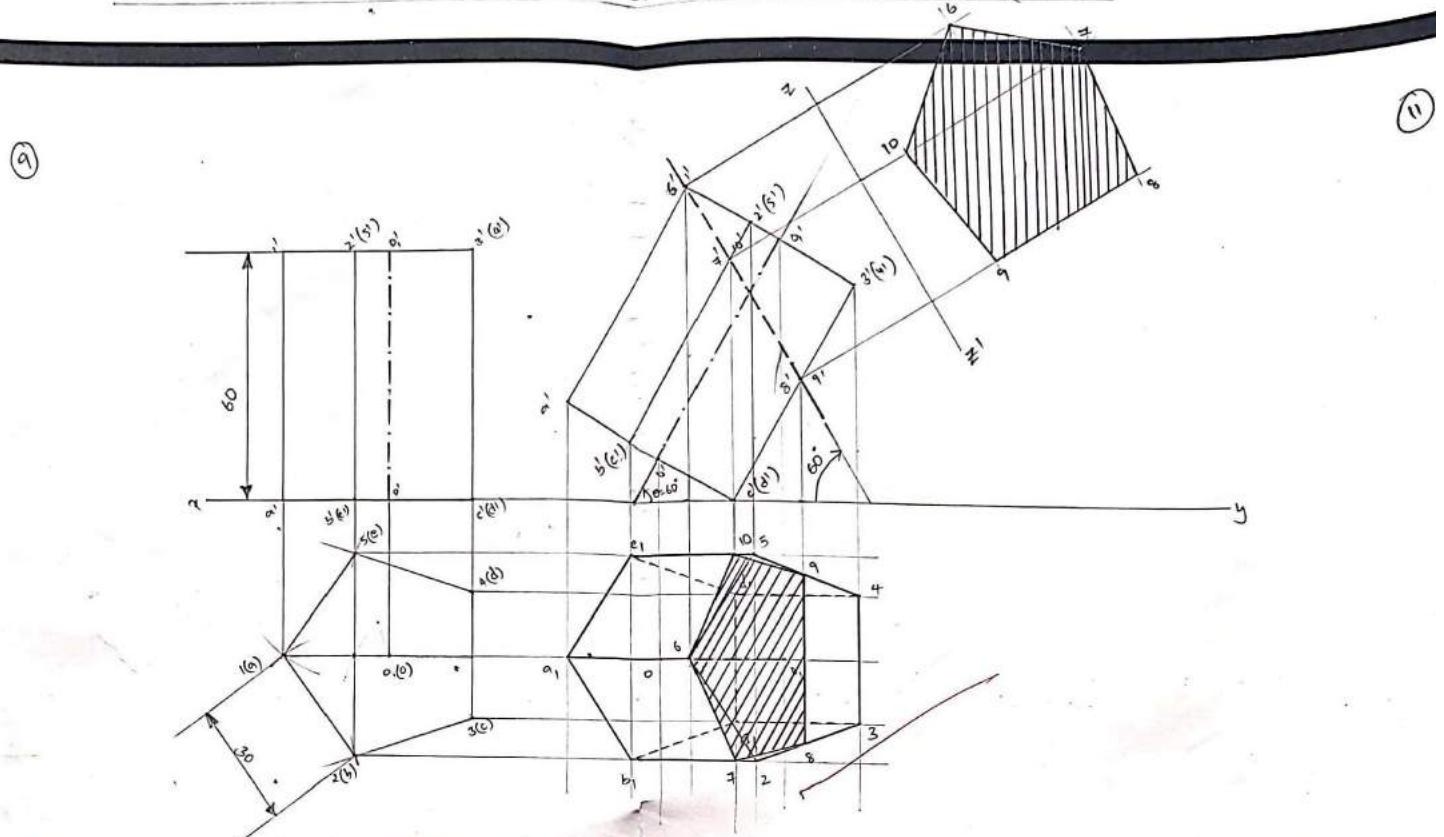
MODEL 3: SECTION AND DEVELOPMENT OF SURFACE OF CYLINDER.

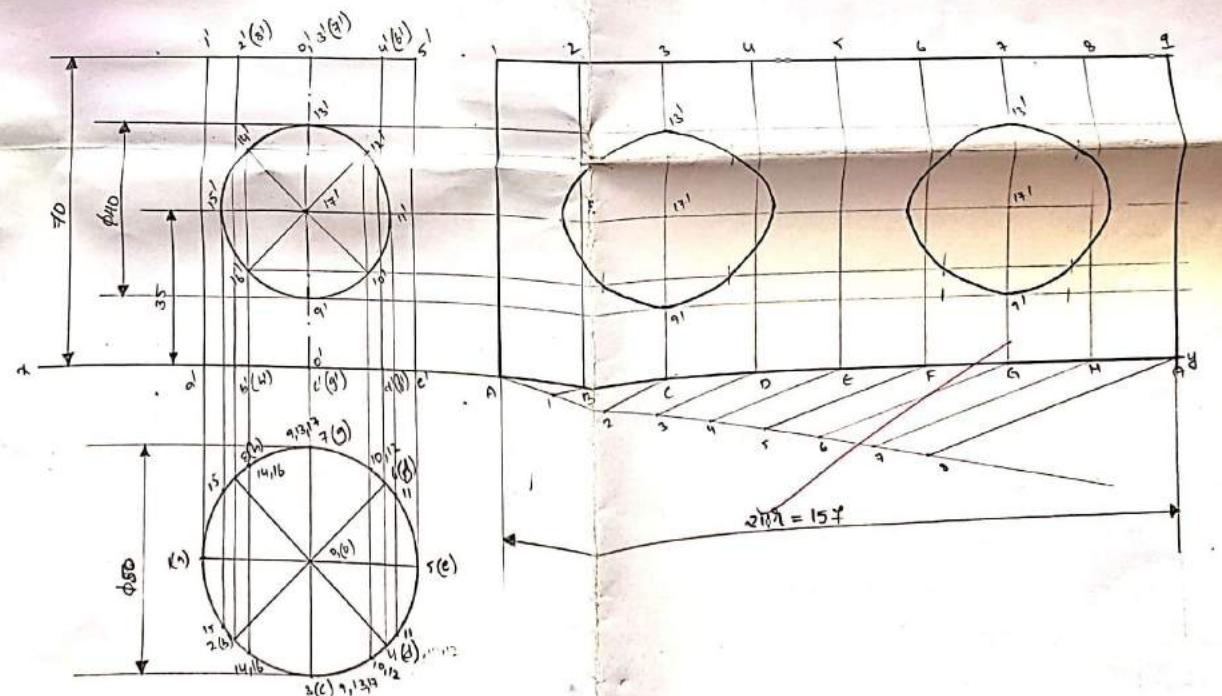
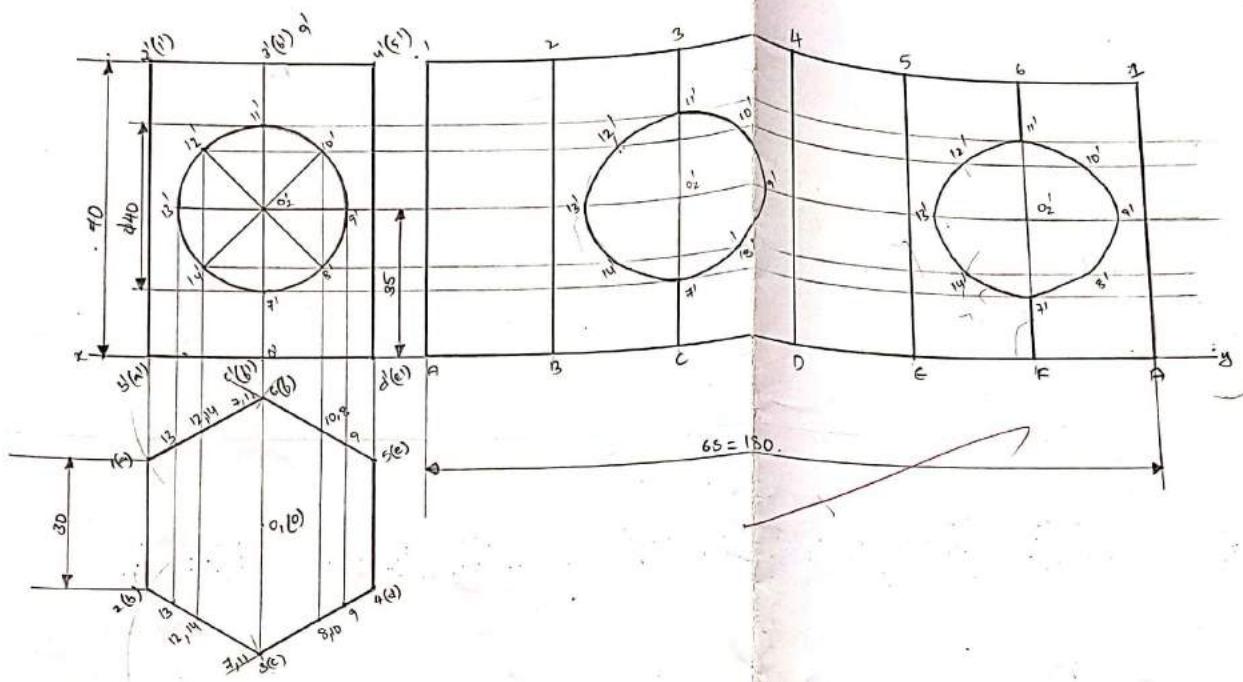


MODEL 2: SECTION & DEVELOPMENT OF SURFACE OF CONE. (6 to 8)

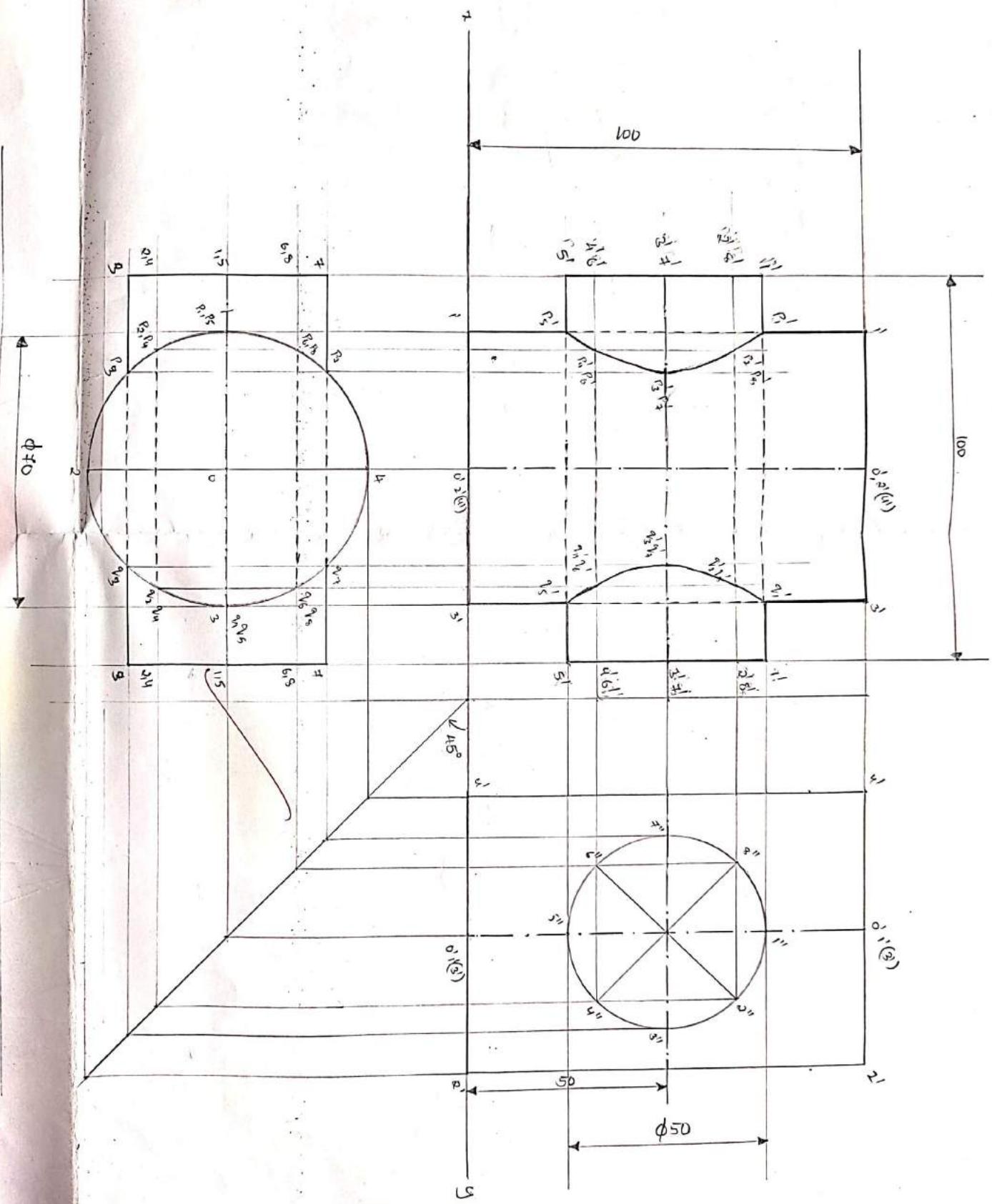


MODEL 4: SECTION & DEVELOPMENT OF SURFACES OF PRISMS (9 to 12)





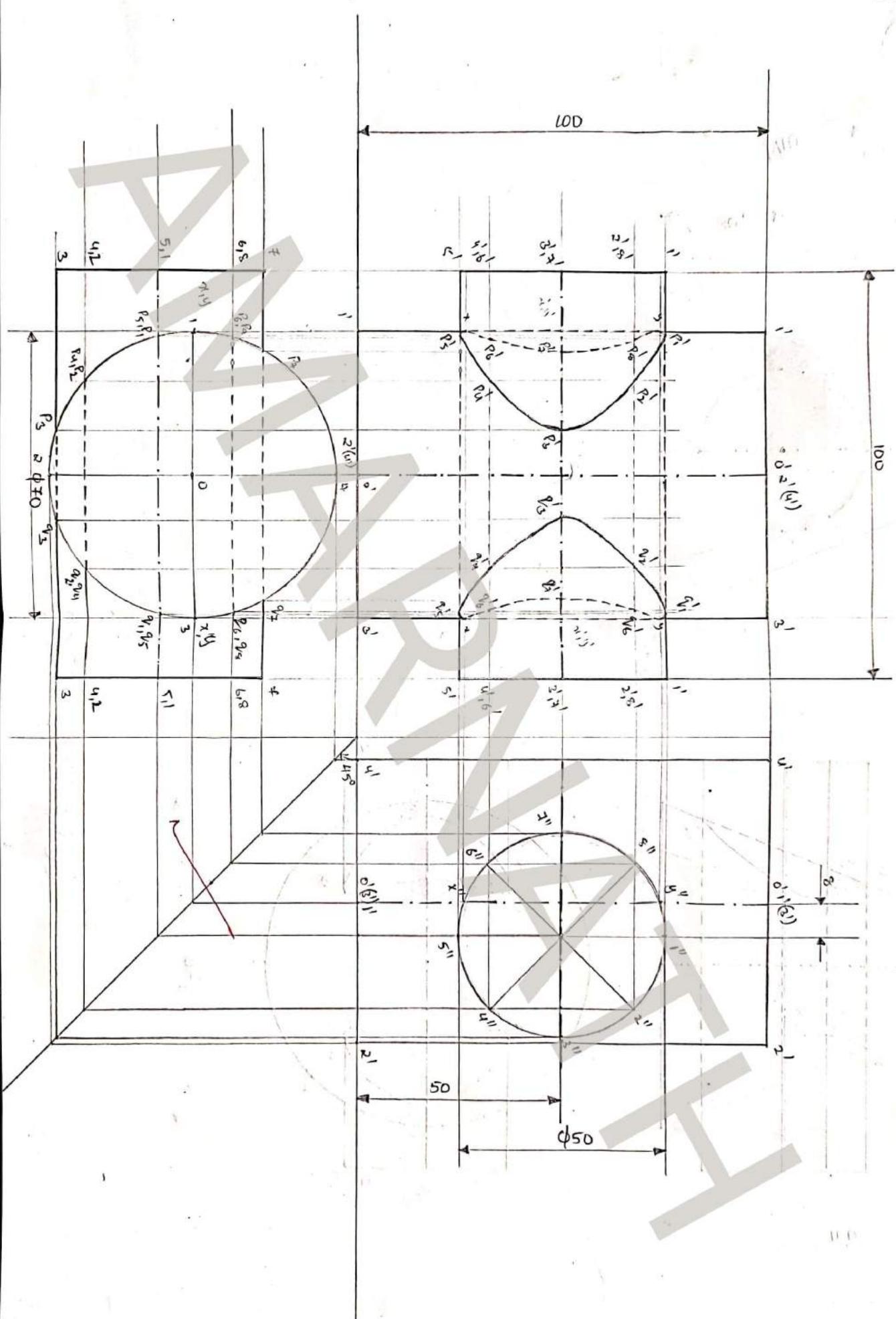
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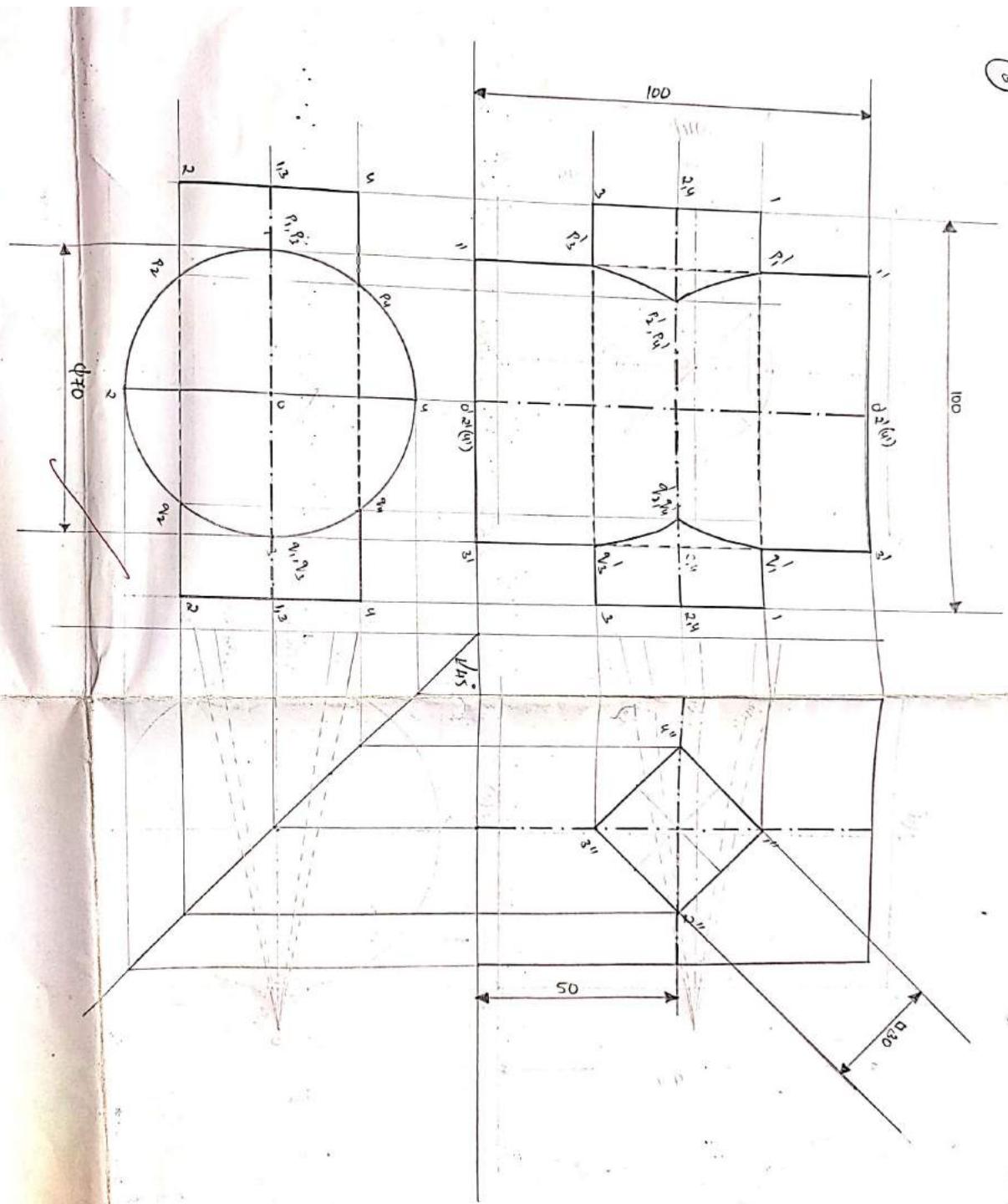


CYLINDER TO CYLINDER

2

CYLINDER TO CYLINDER OFFSET.

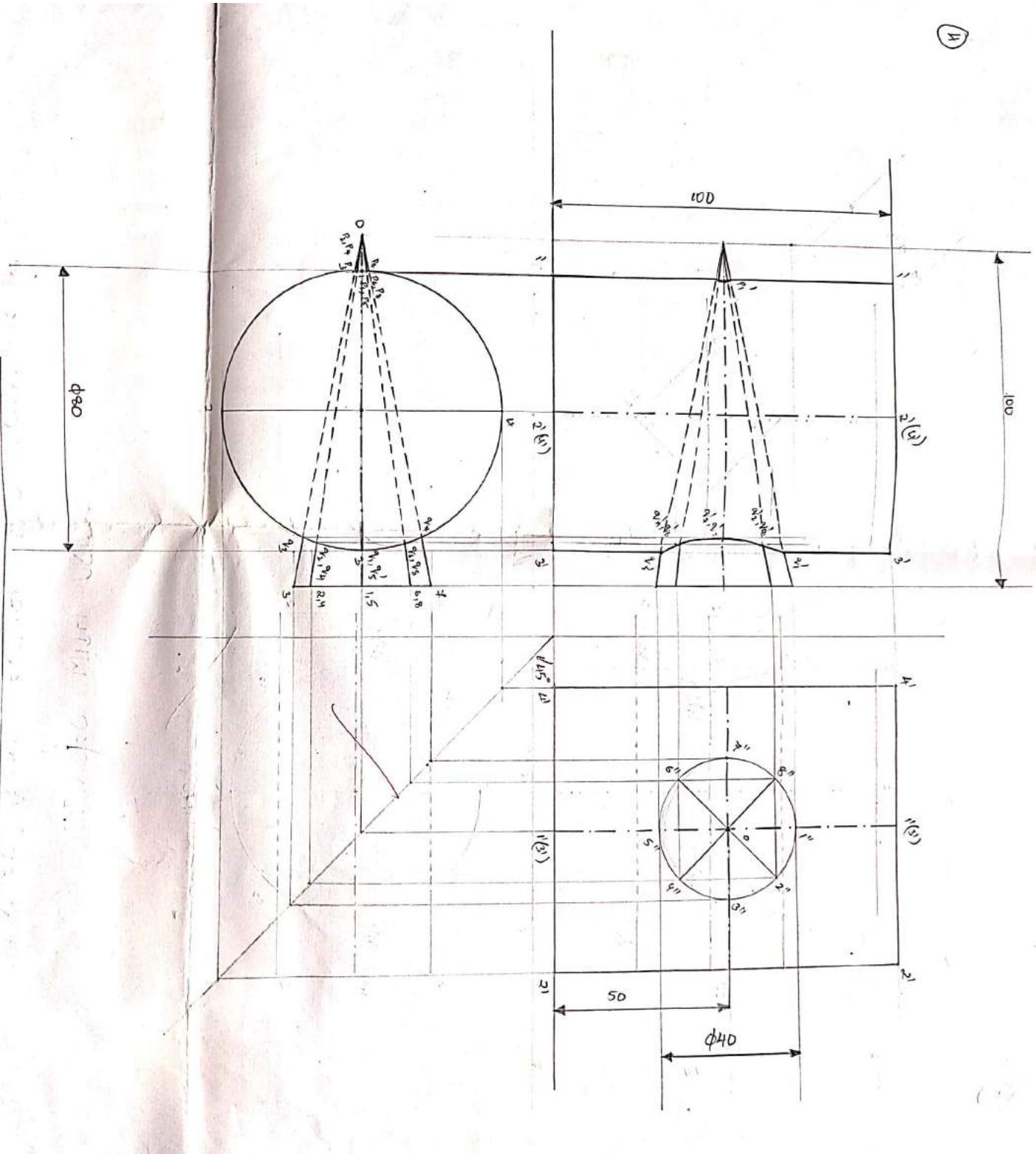




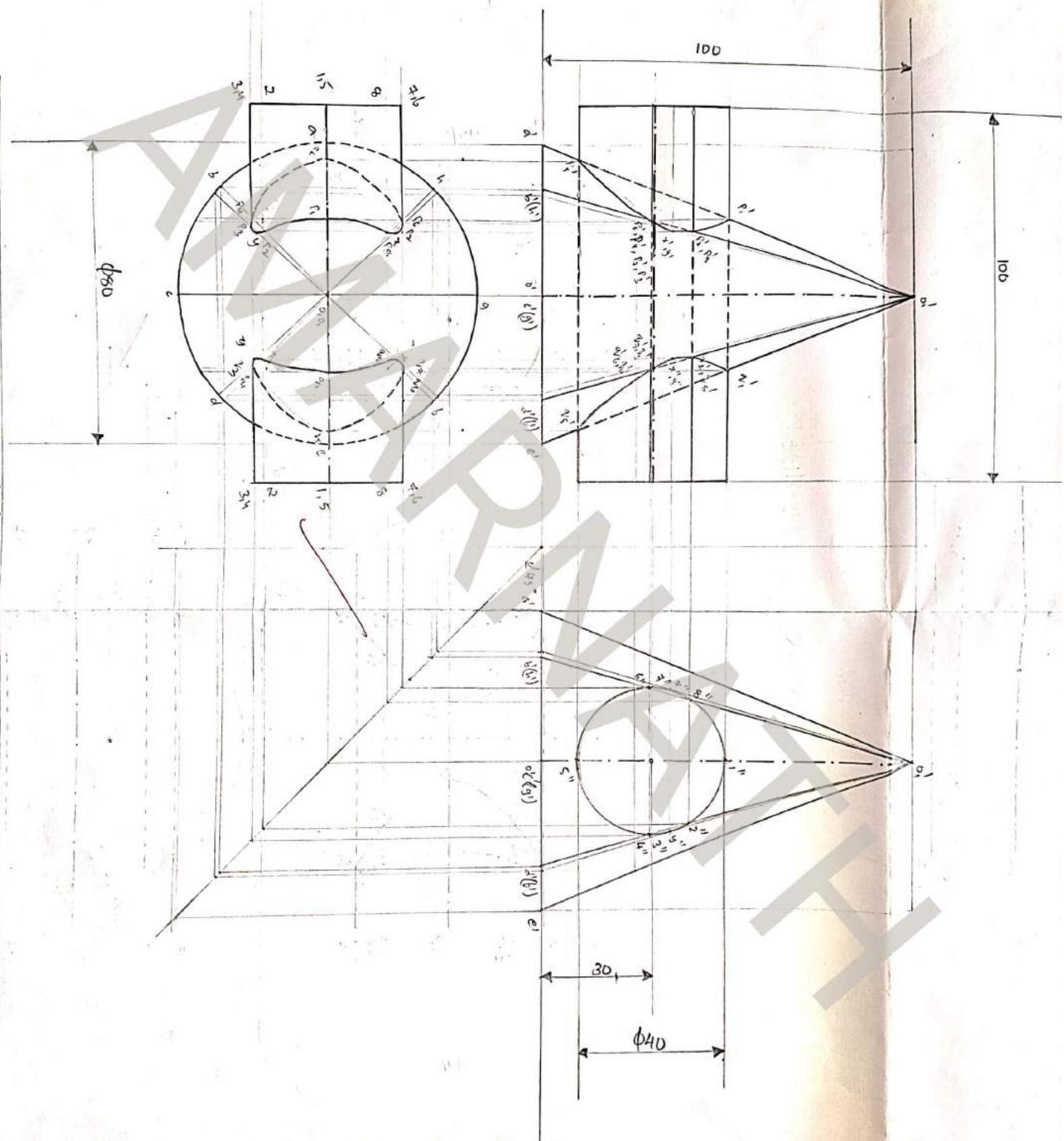
CYLINDER WITH PRISM

CYLINDER IS IN VERTICAL AND PRISM IS IN HORIZONTAL

CONE - CYLINDER



(5)



CONE - CYLINDER

