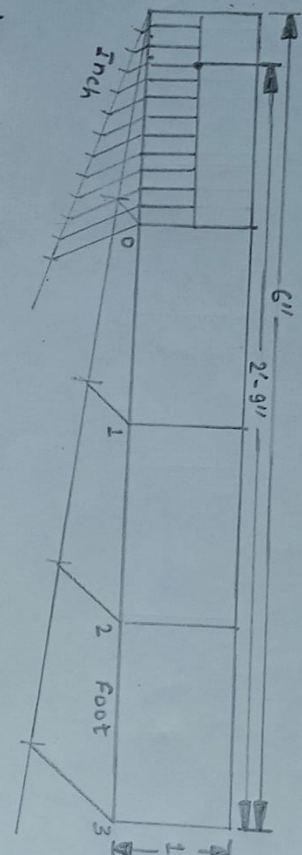
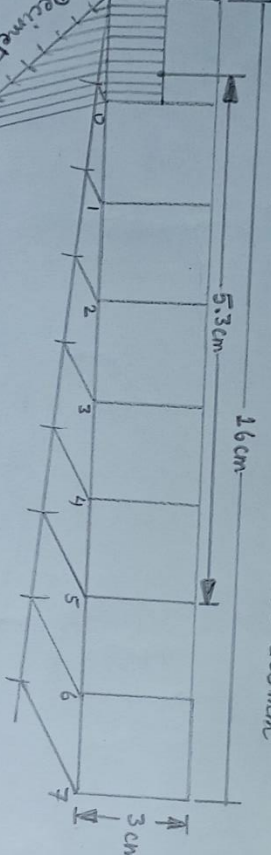


ASSIGNMENT - 3Q. NO. 1) & 2)

**1.)**  $RF = 1/8$  Length of scale =  $(\frac{1}{8} \times 4 \times 12) \text{ inch} = 6''$



**2.)**  $RF = 1/50$   $\therefore$  Length of scale =  $(\frac{1}{50} \times 8 \times 100) \text{ cm} = 16 \text{ cm} = 160 \text{ mm}$



**Problem 2:** Draw a plain scale of 1:50 to show meter and decimeter and long enough to measure 8 m. Show on it a distance equal to 5.3 m.

$RF = 1/50$ , Scale: 1:50

**Q2:** Show a plain scale of  $RF = 1/8$ . Show feet and inch and indicate a length of 2'-9". The length of scale will be 4".

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TITLE	CONSTRUCTION OF SCALE
SCALE: $1/8$	DATE: 7.7.21
TEACHER'S SIGN:	

2021/07/22 12:42

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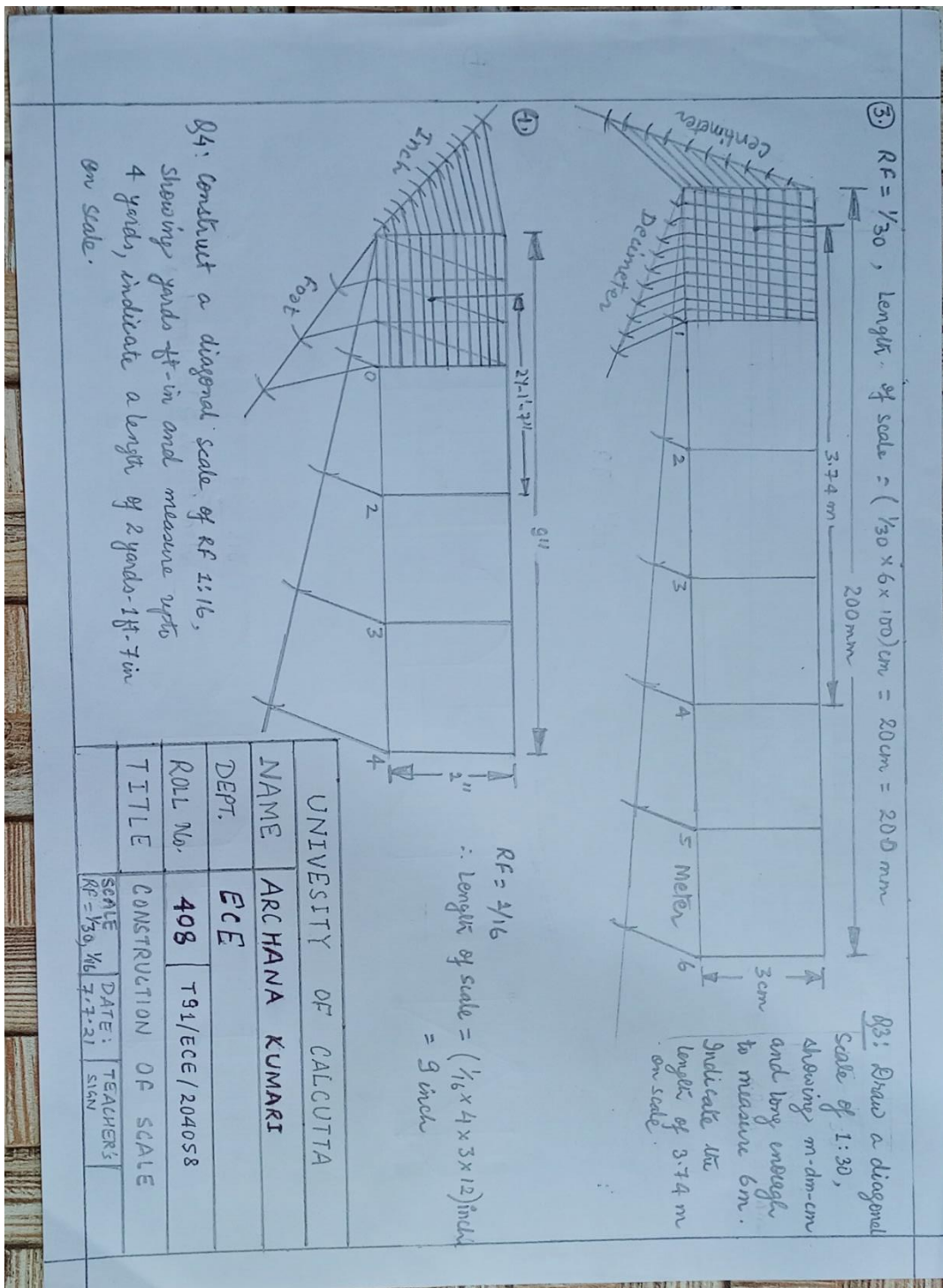
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Q. NO. – 3) & 4)

SEM - 2

ENGINEERING DRAWING

ASSIGNMENT



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SEM - 2

ENGINEERING DRAWING

ASSIGNMENT

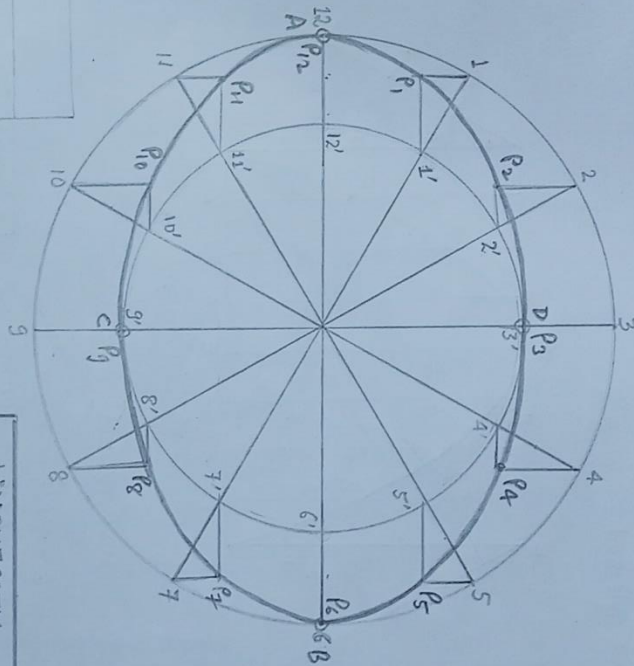
ASSIGNMENT – 4

Q. NO. 1)

ASSIGNMENT-4

Problem 1:

By Concentric  
Circle Method:



ELLIPSE

AB = MAJOR AXIS = 120 mm

CD = MINOR AXIS = 80 mm

Q1: Draw an ellipse of having major axis,  
AB = 120 mm and minor axis, CD = 80 mm  
by concentric circle method.

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TITLE ELLIPSE (by concentric circle method)

SCALE: 1:1 DATE: 13.7.21 TEACHER'S SIGN



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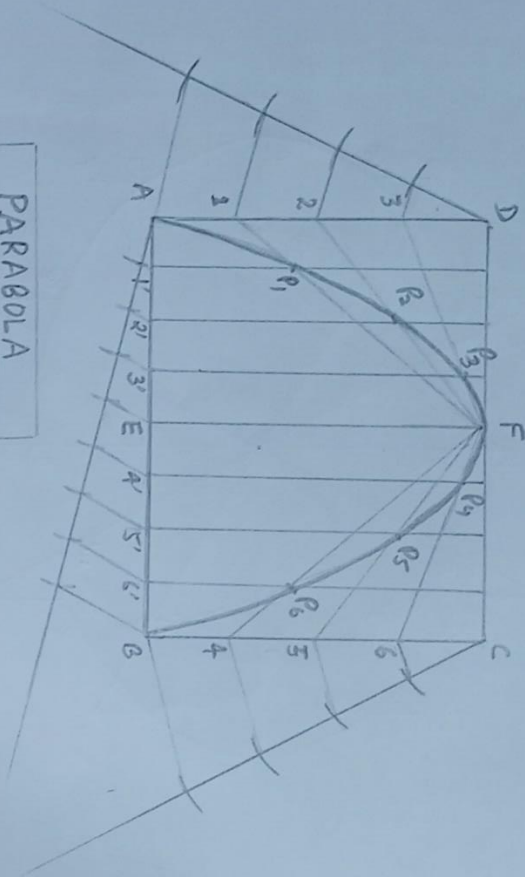
Q. NO. 2)

SEM - 2

ENGINEERING DRAWING

ASSIGNMENT

Problem 2: By Rectangle Method



PARABOLA

AB = BASE = 80mm  
EF = AXIS = 60mm

Q2: Draw a Parabola with its base is  
AB = 80mm and axis, EF = 60mm  
by rectangle method.

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TITLE	PARABOLA (by Rectangle Method)		
SCALE:	DATE:	TR. SIGN	
1:1	13.7.21		

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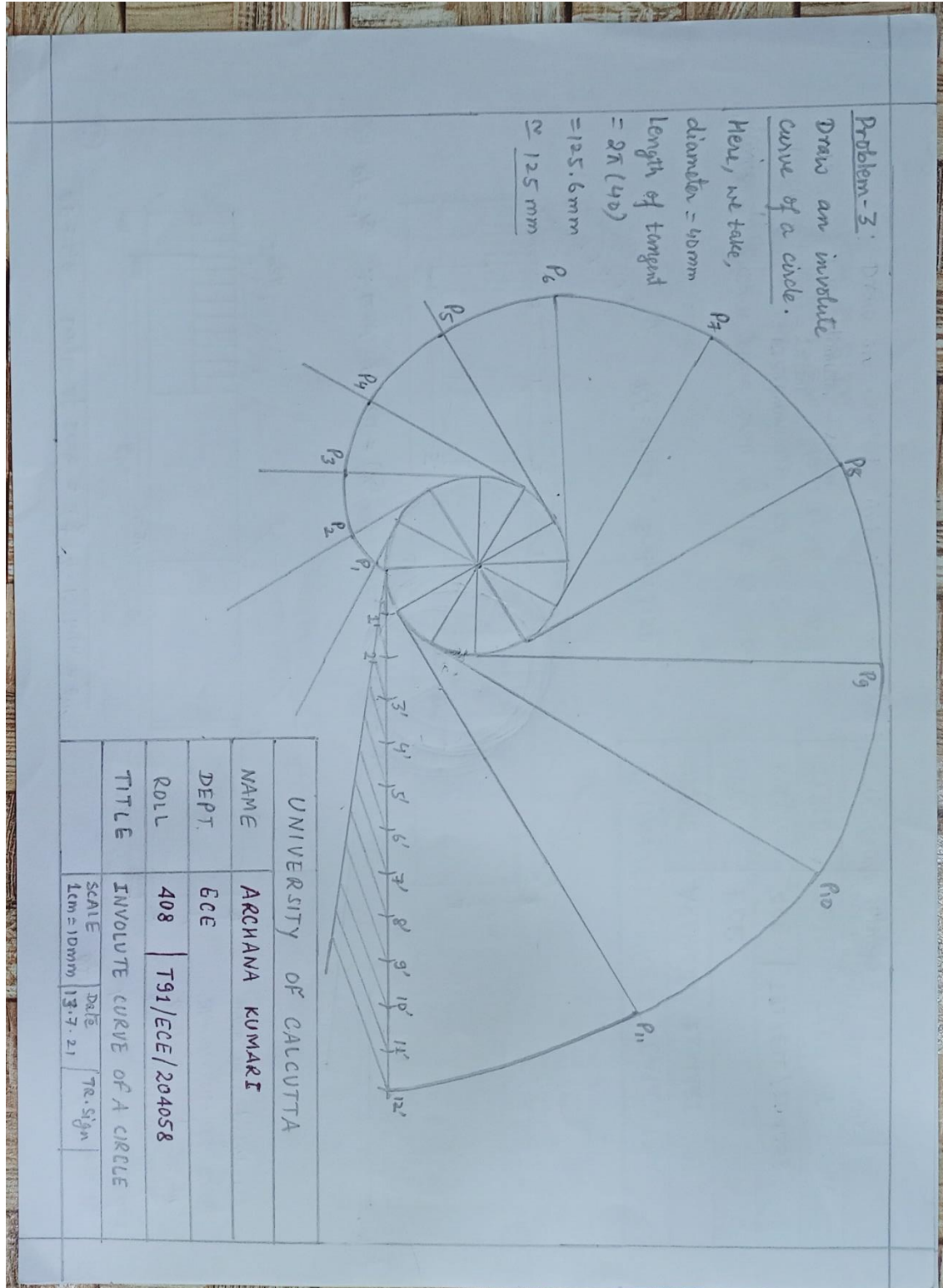
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Q. NO. 3)

SEM - 2

ENGINEERING DRAWING

ASSIGNMENT



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SEM - 2

ENGINEERING DRAWING

ASSIGNMENT

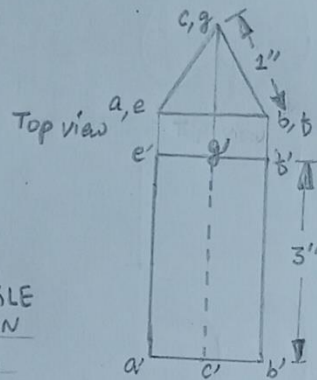
ASSIGNMENT - 5

Q. NO. - 1

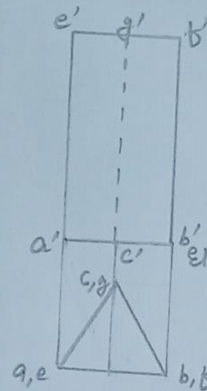
Problem 1: Draw in both first angle and third angle projection plan, elevation and top view, front view of a triangular prism with axis vertical and one of the triangular faces is parallel to the vertical plane. Height = 3 inch, Sides = 1 inch.

Assignment  
→ 5

THIRD ANGLE  
PROJECTION  
Scale - 2:1

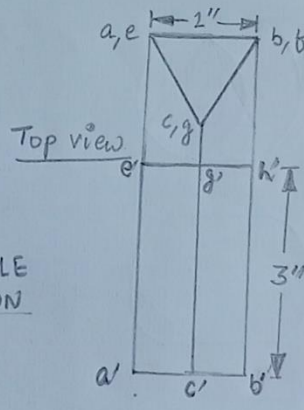


FIRST ANGLE  
PROJECTION  
Scale - 2:1

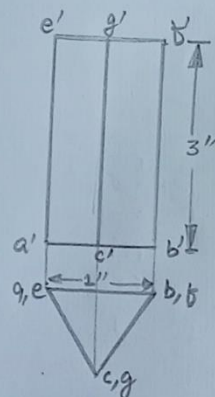


OR

THIRD ANGLE  
PROJECTION  
Scale: 2:1



FIRST ANGLE  
PROJECTION  
Scale: 2:1



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TITLE ORTHOGONAL PROJECTION (Asg-5)

SCALE  
2:1

DATE:  
22.7.21

TR. SIGN.



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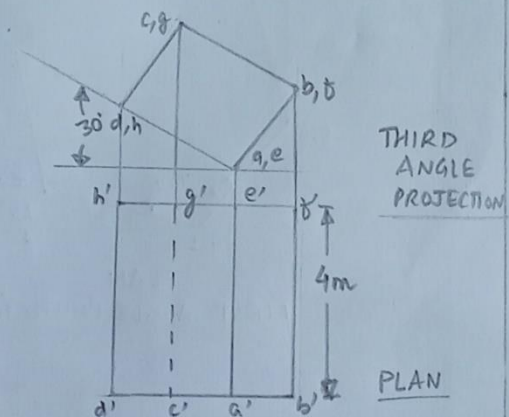
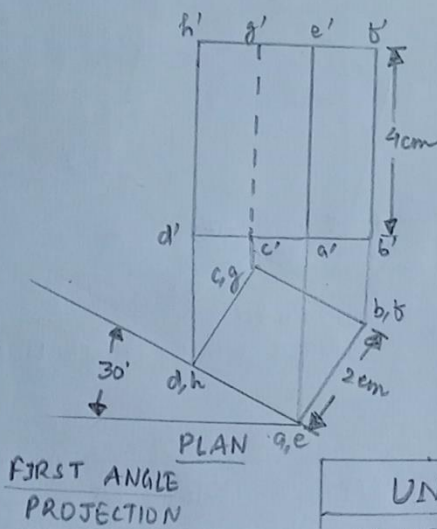
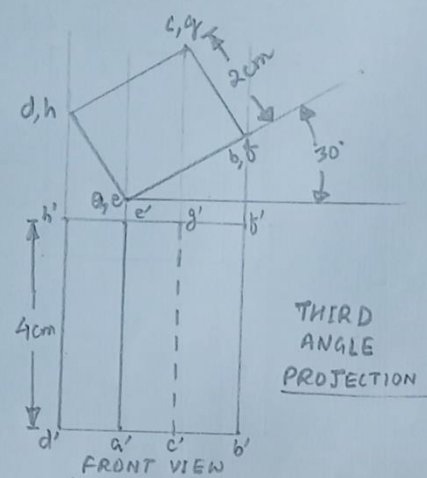
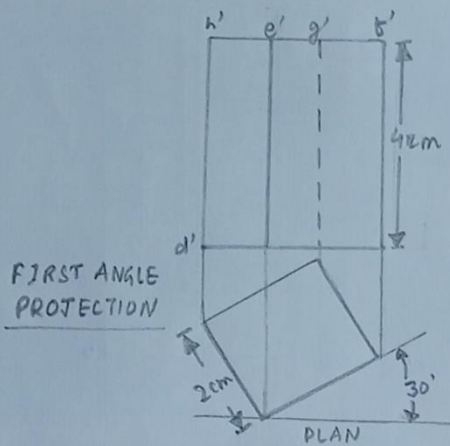
Q. NO. - 2)

SEM - 2

ENGINEERING DRAWING

ASSIGNMENT

Problem 2: A sq. prism of length 10m and each sides of square 4m is placed with axis vertical, and one of the sides of the square is at an angle  $30^\circ$  with vertical plane. Draw plan, elevation and top view and front view in both first and third angle projection.



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TITLE SQUARE PRISM

SCALE: 2:100 DATE: 22.7.21 TR. SIGN

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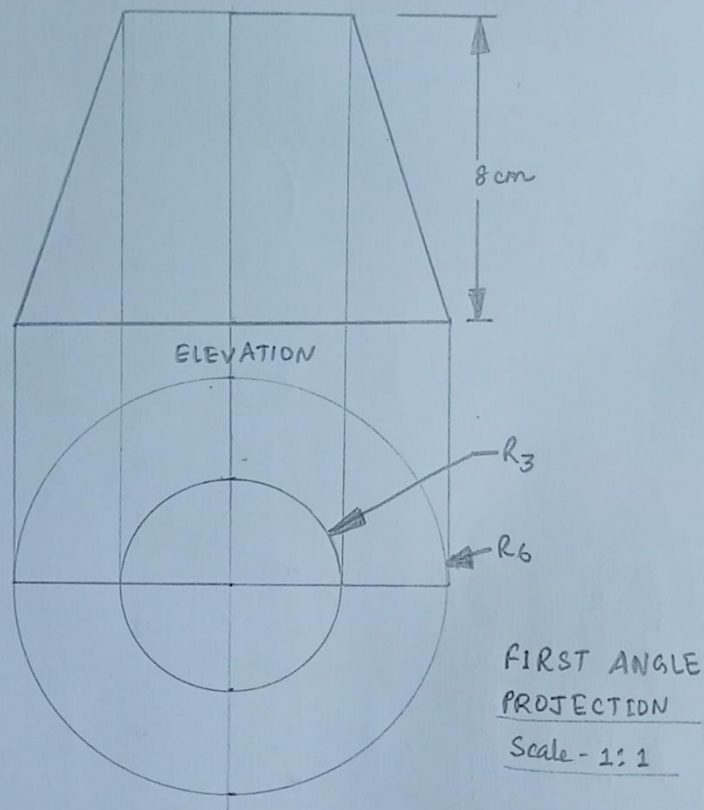
Q. NO. – 3)

SEM - 2

ENGINEERING DRAWING

ASSIGNMENT

Problem 3: Draw first angle projection plan and elevation of a truncated cone with its axis vertical. It has top circle diameter 3 cm and base circle diameter 6 cm and of length of 8 cm. Use 1:1 scale.



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TITLE TRUNCATED CONE (1<sup>st</sup> angle projection)

SCALE  
1:1

DATE:  
22.7.21

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Q. NO. – 4)

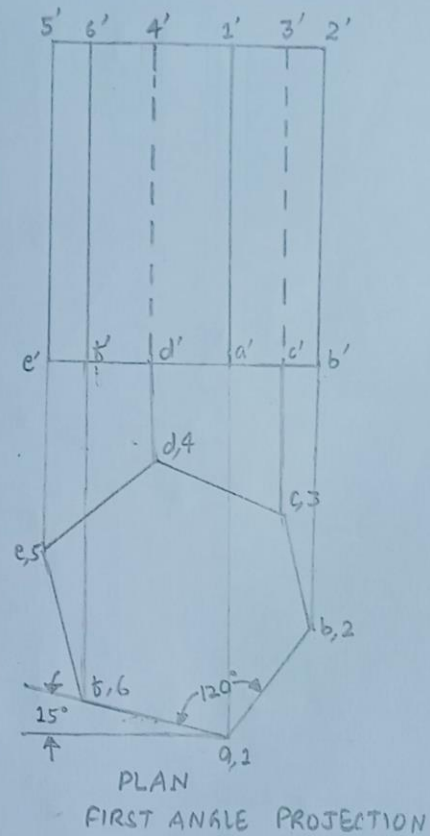
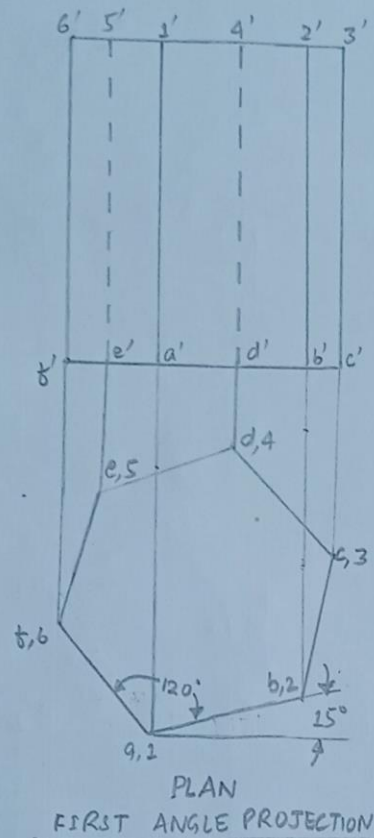
SEM - 2

ENGINEERING DRAWING

ASSIGNMENT

Problem 4: Draw first angle projection plan and elevation of a hexagonal prism with axis vertical and one of the rectangular faces is at an angle  $15^\circ$  with vertical plane. Each side of the hexagon is 4 cm and of height of 10 cm. Use 1:1 scale.

Soln:



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TITLE

HEXAGONAL PRISM

SCALE:  
1:1

DATE:  
22.7.21

TR. SIGN:

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SEM - 2

ENGINEERING DRAWING

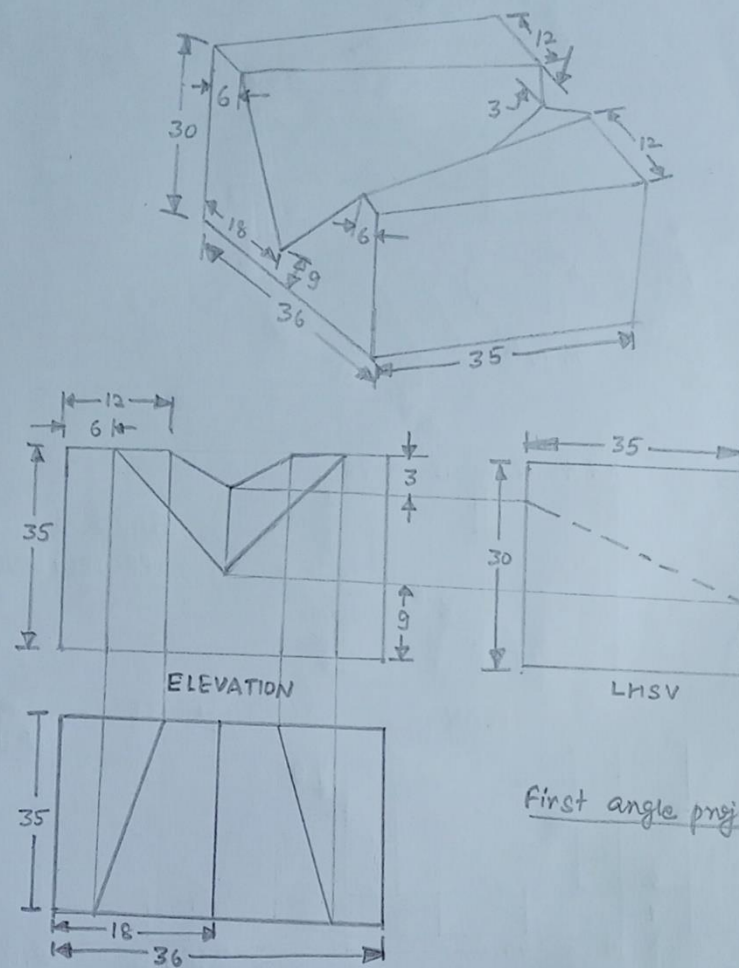
ASSIGNMENT

ASSIGNMENT – 6

Q. NO. – 1)

Assignment - 6

Problem 1: Draw plan, elevation and side views of a V-block as shown using first angle projection



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TITLE V-block (first angle Projection)

SCALE :  
1:1

DATE:  
22.7.21

TR. SIGN

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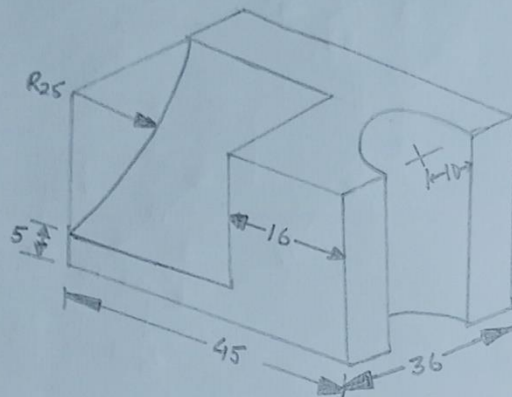
Q. NO. – 2)

SEM - 2

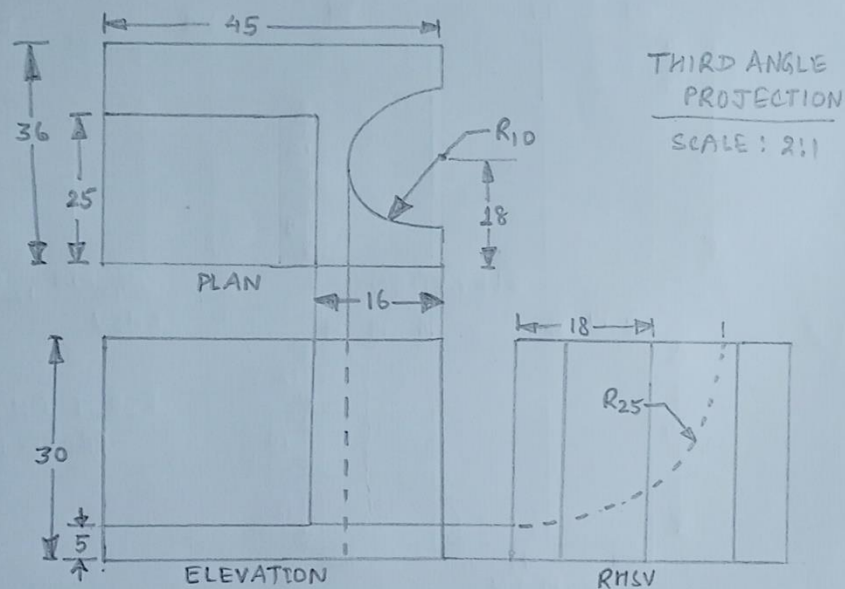
ENGINEERING DRAWING

ASSIGNMENT

Problem:2 Draw top view, front view and side view of the solid considering 3<sup>rd</sup> angle projection



Sol<sup>n</sup>:



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TITLE THIRD ANGLE PROJECTION

SCALE: 2:1 Date 22.7.21 TR. SIGN



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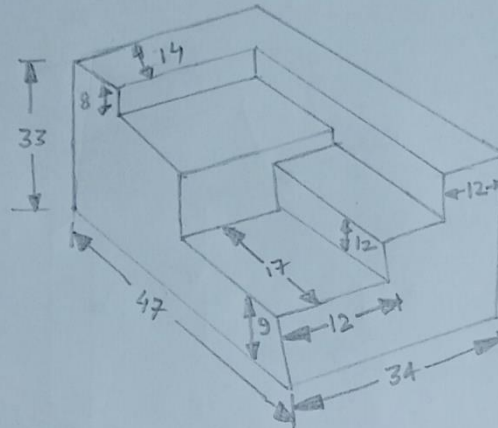
Q. NO. – 3)

SEM - 2

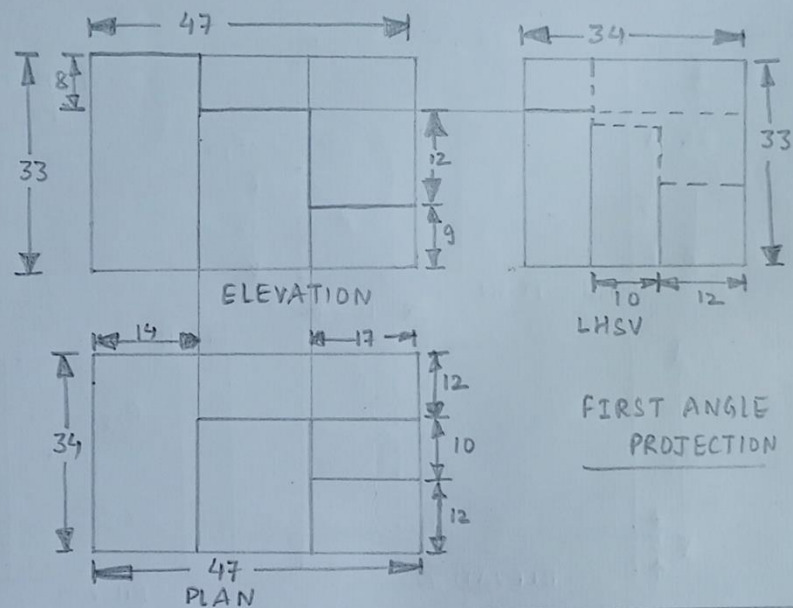
ENGINEERING DRAWING

ASSIGNMENT

Problem 3: Draw the 1<sup>st</sup> angle projection of the Staircase shown:



Sol<sup>n</sup>:



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SCALE:	DATE:	TR. SIGN:	
2:1	22.7.21		

## SEM - 2

## ENGINEERING DRAWING

## ASSIGNMENT

**Q. NO. – 4)**

A hand-drawn isometric view of a mechanical part. The part has a rectangular base with a semi-circular cutout on the front-left side. The base dimensions are 44 (length) and 31 (width). The height of the base is 7. The part features several vertical walls and a sloped top surface. Key dimensions include a 100mm length for the top-left section, a 7mm width for a small step, a 15mm width for a central section, and a 32mm height for the rightmost vertical wall. A semi-circular cutout on the front-left has a radius of 14 and a depth of 5.

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TITLE	THIRD ANGLE PROJECTION		
	SCALE: 3:1	DATE: 29.7.21	TR. SIGN