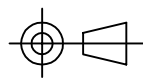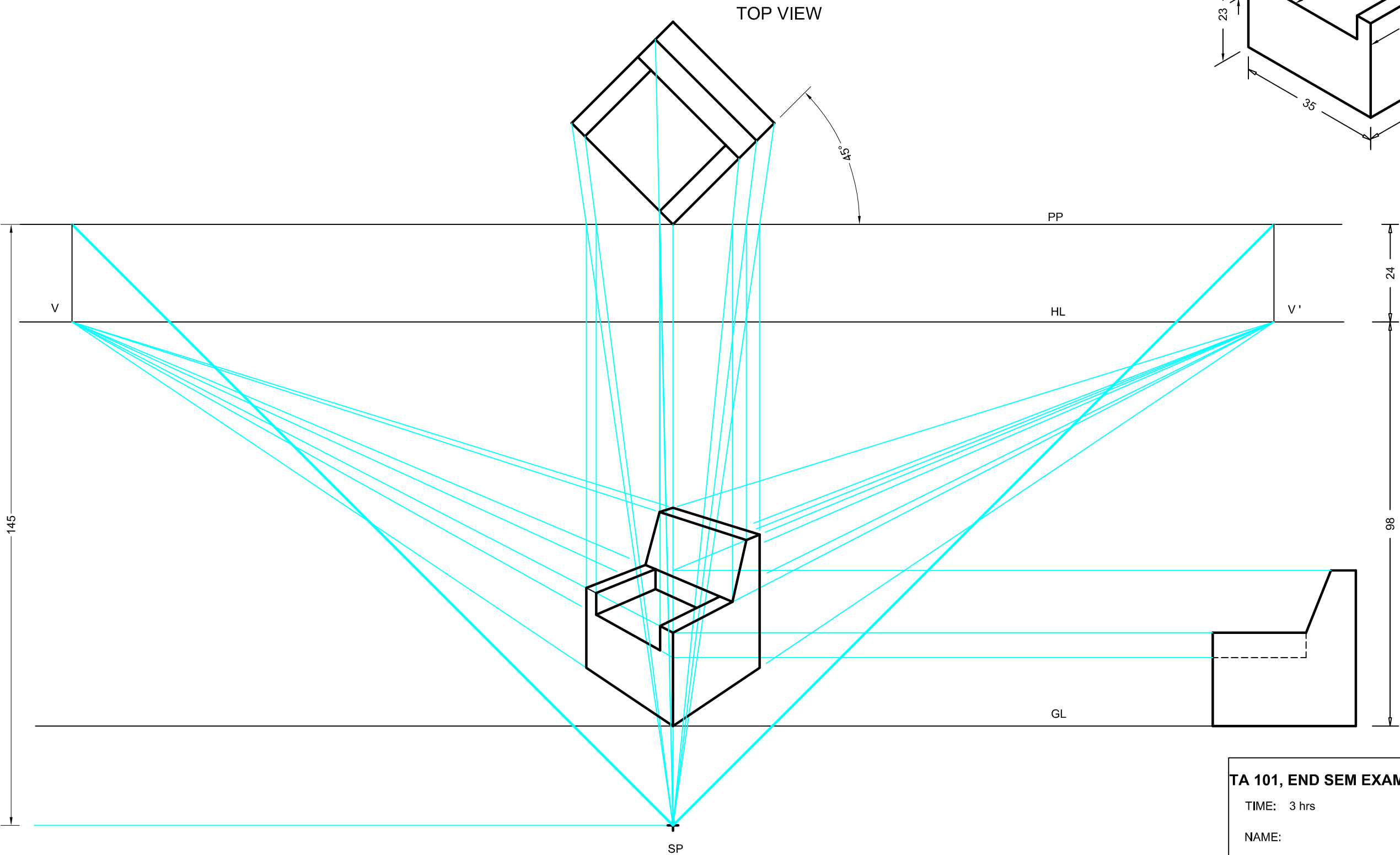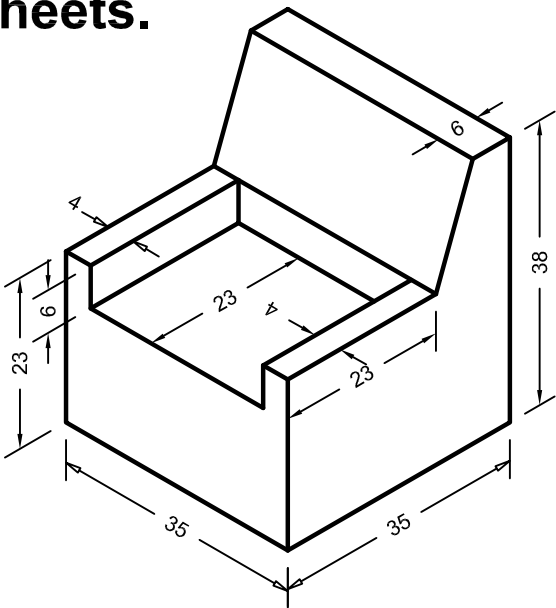**In all questions, all dimensions are in mm. <u>Do not</u> remove the stapler pin to separate the sheets.**

Q1.   Draw the perspective view of the chair shown in the pictorial view from the given top and
profile views.   **(15 Marks)**

TOP VIEW

PP

V   V '

HL

45°

145

24

98

GL

SP

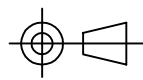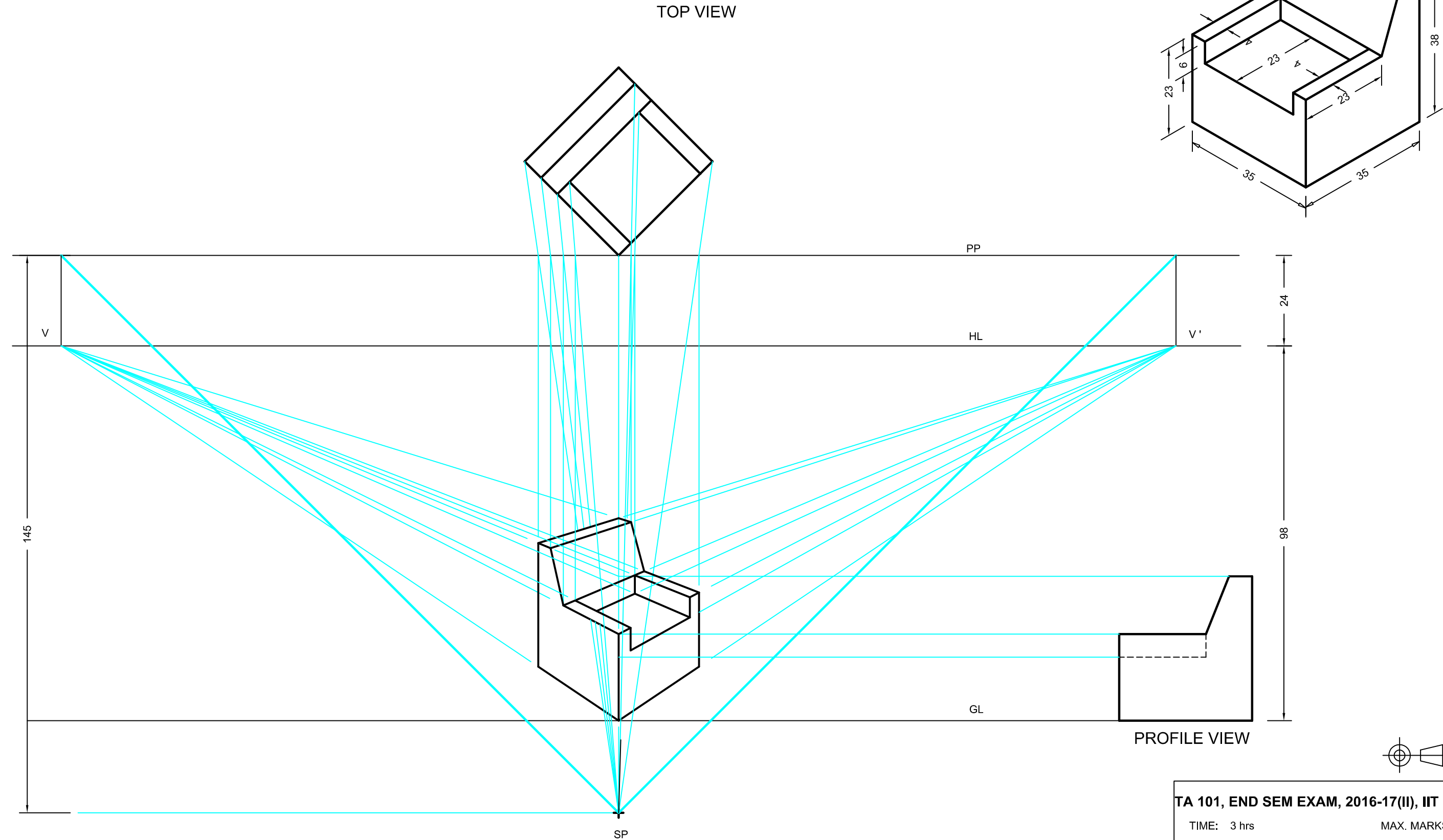**In all questions, all dimensions are in mm. <u>Do not</u> remove the stapler pin to separate the sheets.**
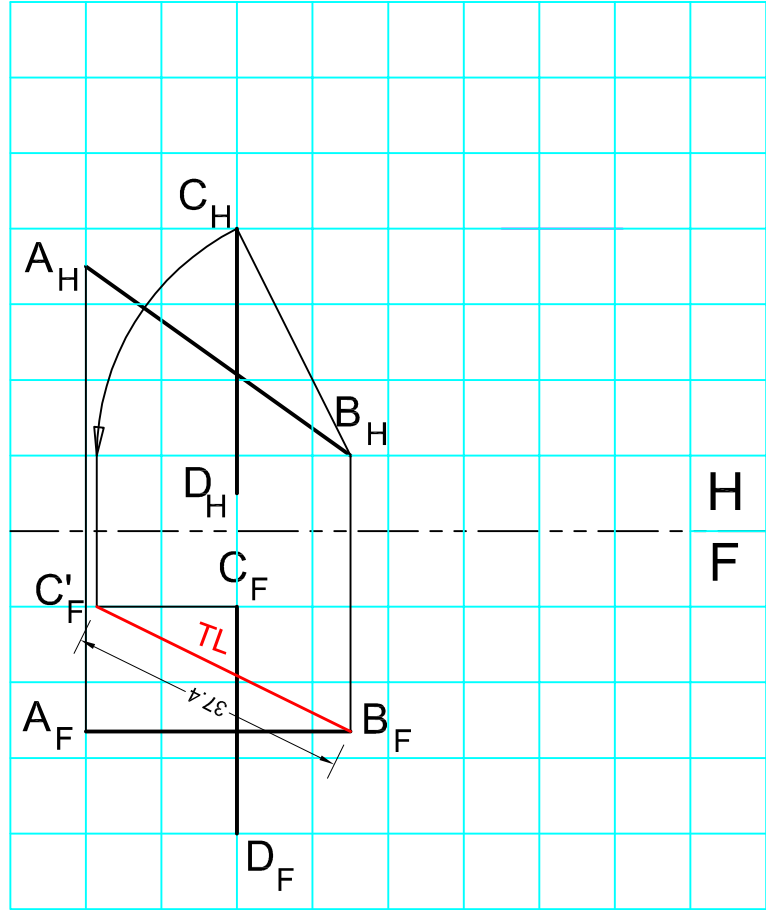
Q1.   Draw the perspective view of the chair shown in the pictorial view from the given top and
profile views.   **(15 Marks)**

TOP VIEW

PP

V   HL   V '

145

98

24

GL

PROFILE VIEW

SP

B

38

6

23

6

23

4

23

35   35

Q2. Lines AB and CD are known to intersect. AB and CD are parallel to horizontal and profile planes, respectively. Complete the line in front view. Also determine the **true length of BC**.
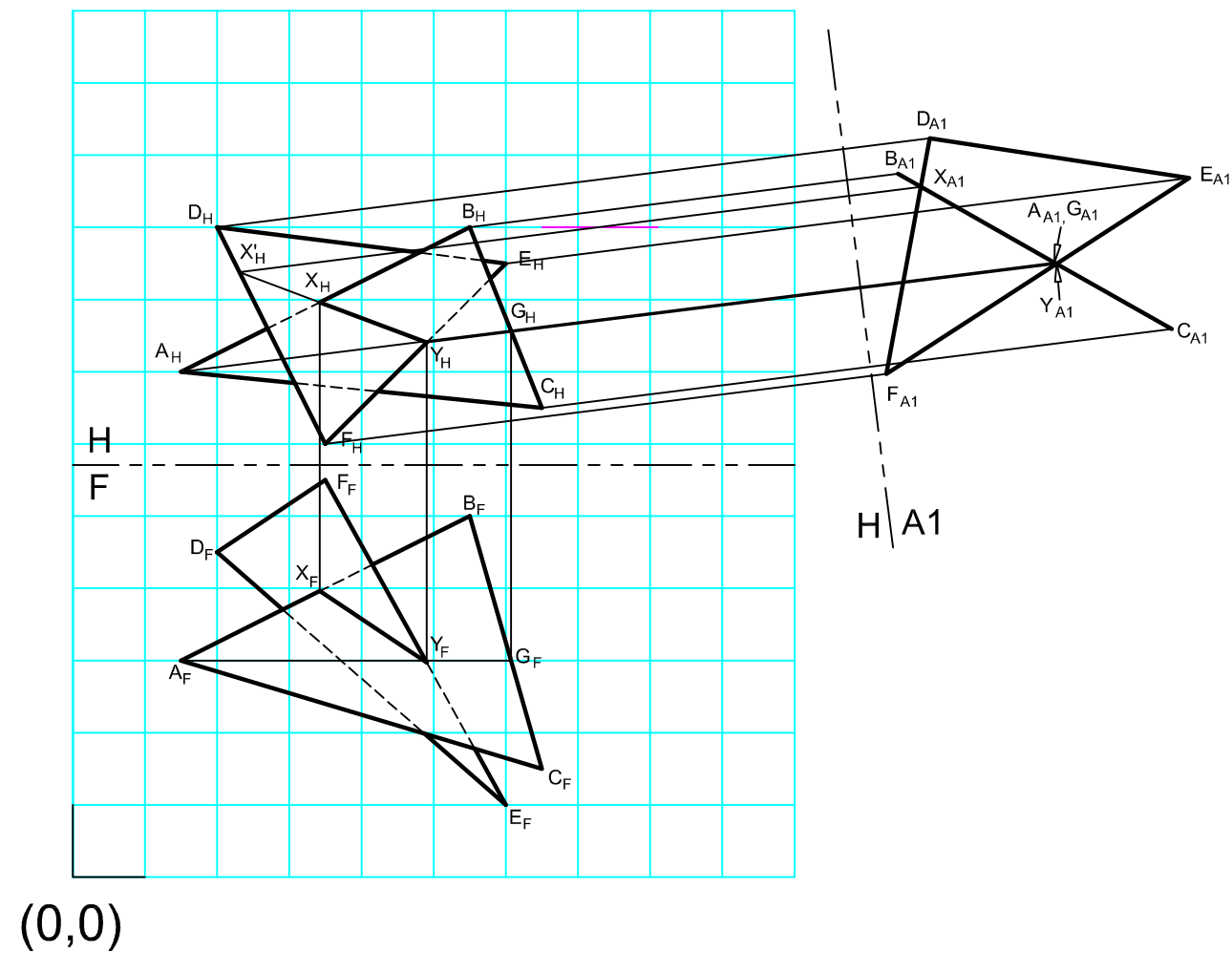
(10 Marks)

BC = 37.4 mm

A

Q2. Lines AB and CD are known to intersect. AB and CD are parallel to horizontal and profile planes, respectively. Complete the line in front view. Also determine the **true length of AD**.
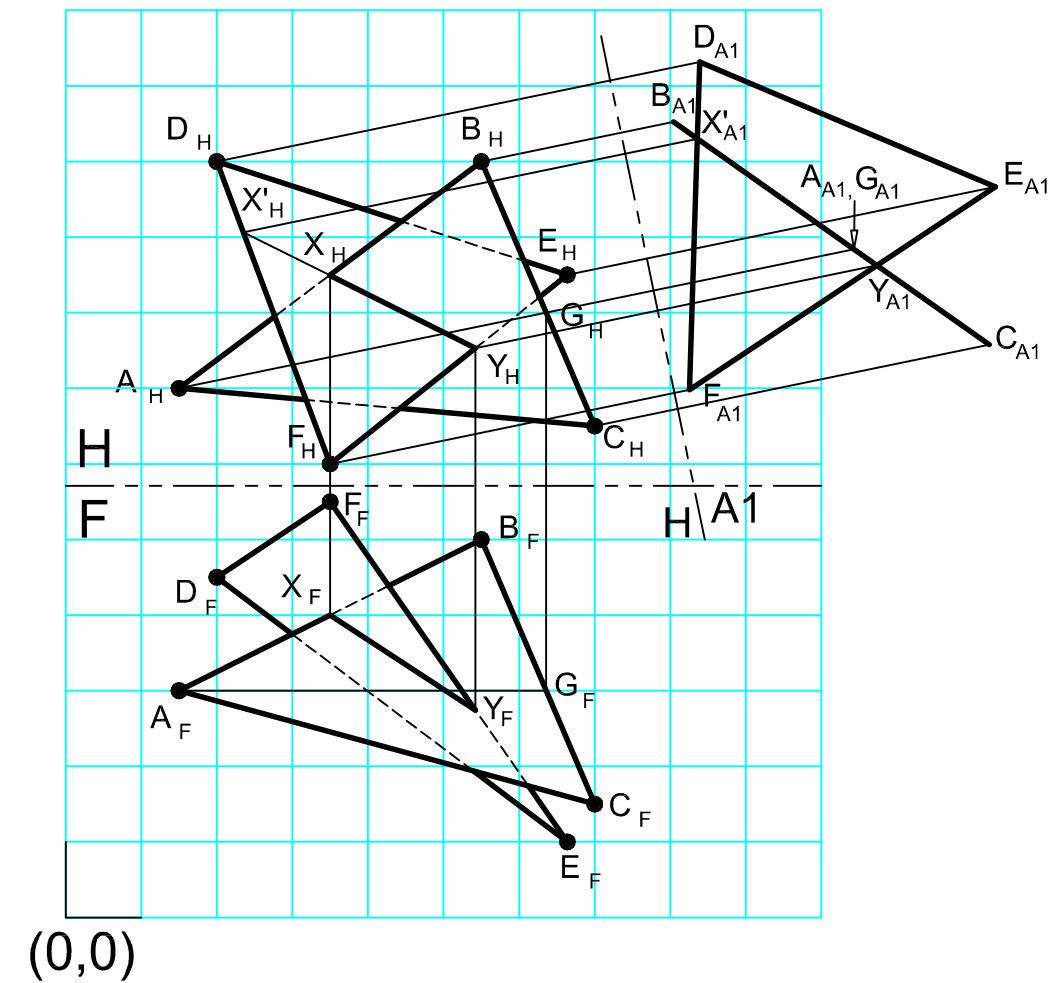
(10 Marks)
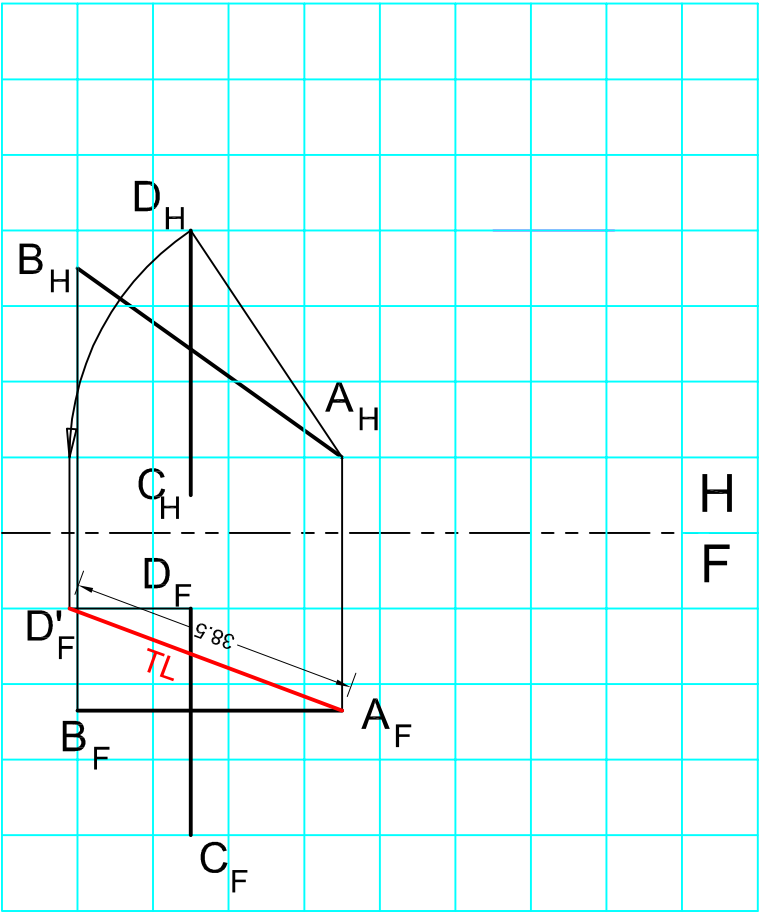
AD = 38.5 mm

B

Q3. Find the line(s) of intersection between the two planes ABC and DEF in both top and front views shown below. Also, show the visibility of all intersecting lines in both the views. **(15 Marks)**
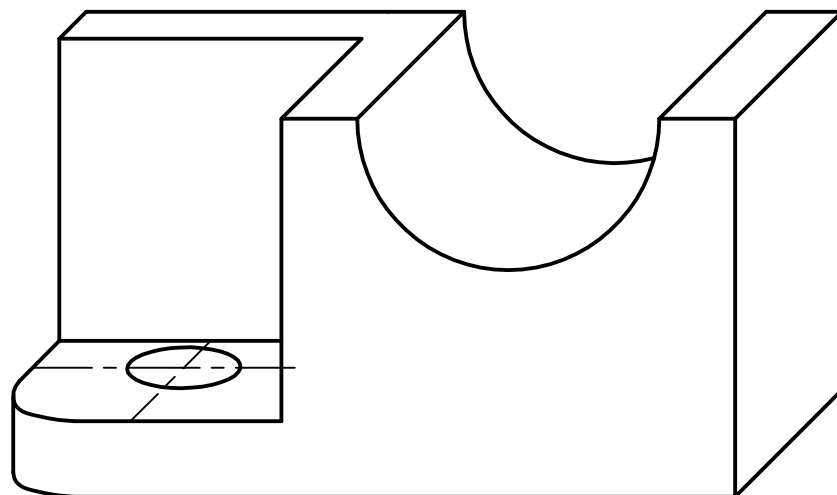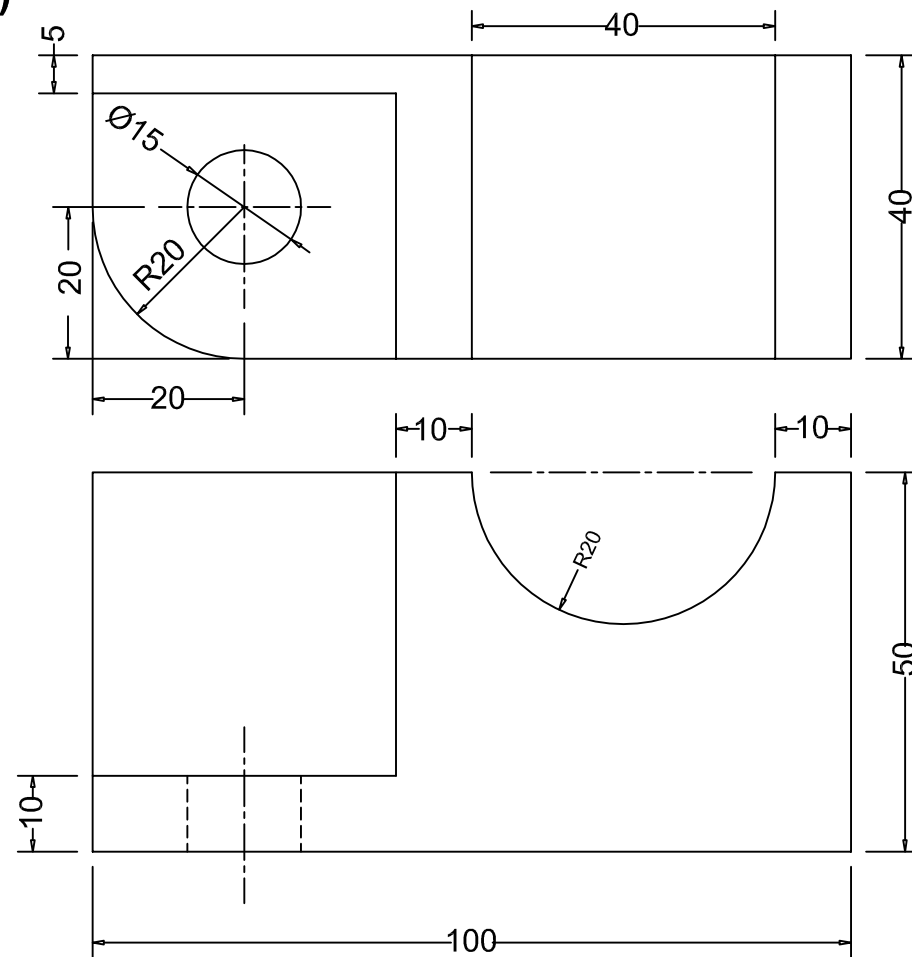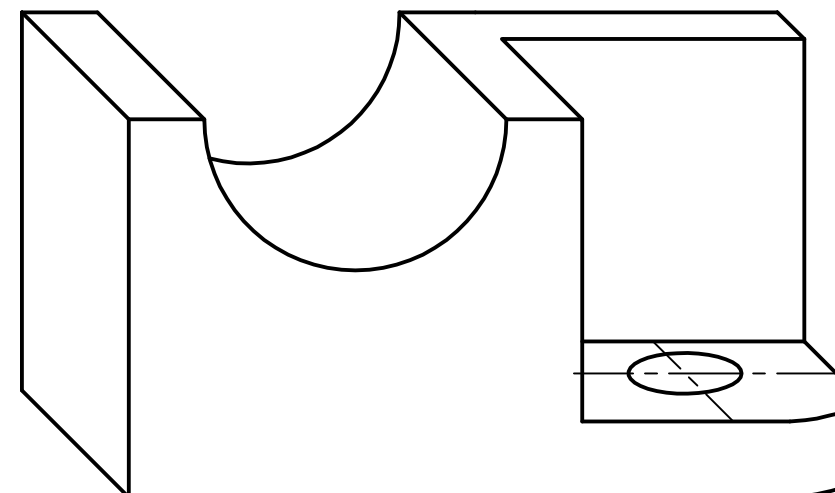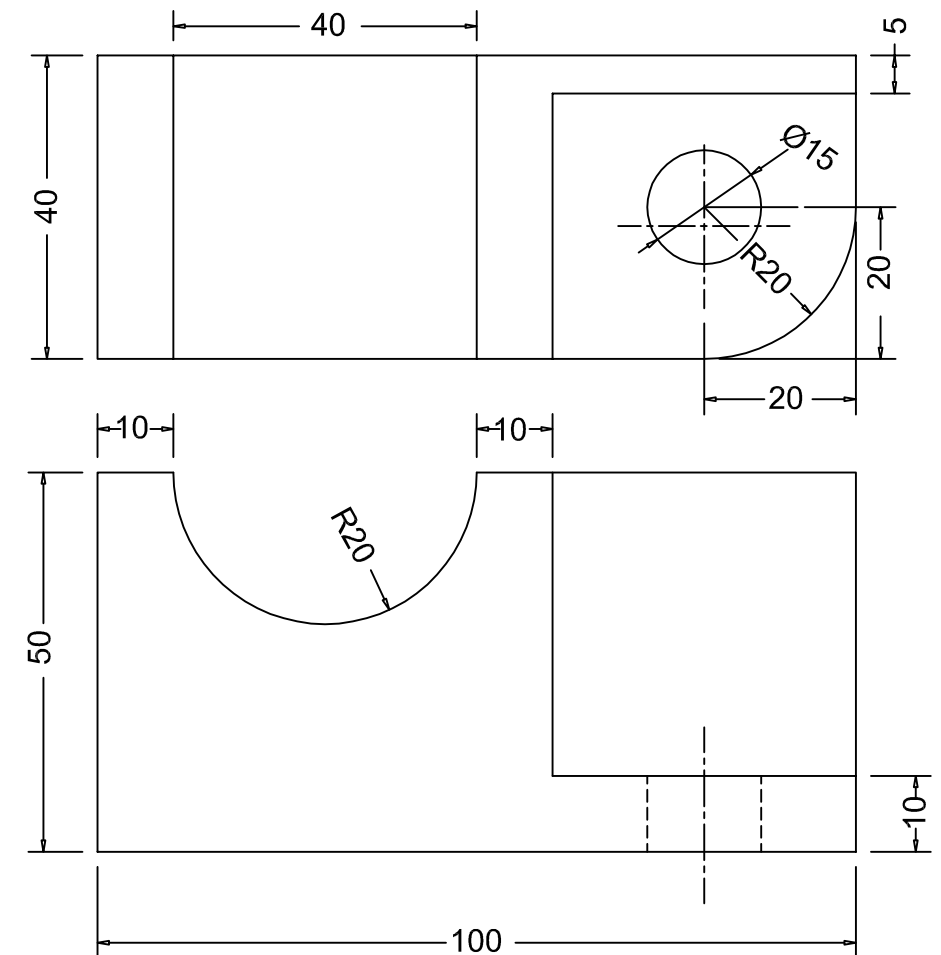

(0,0)

A

(0,0)

B

Q4. Make a cabinet view of the object shown below. Take depth direction as 45° from the horizontal. <u>No need</u> to dimension the view.　　(15 Marks)

40

5

Ø15

R20

20

20

40

10

10

R20

10

50

100

A

Q4. Make a cabinet view of the object shown below. Take depth direction as 45° from the horizontal. <u>No need</u> to dimension the view.　　(15 Marks)
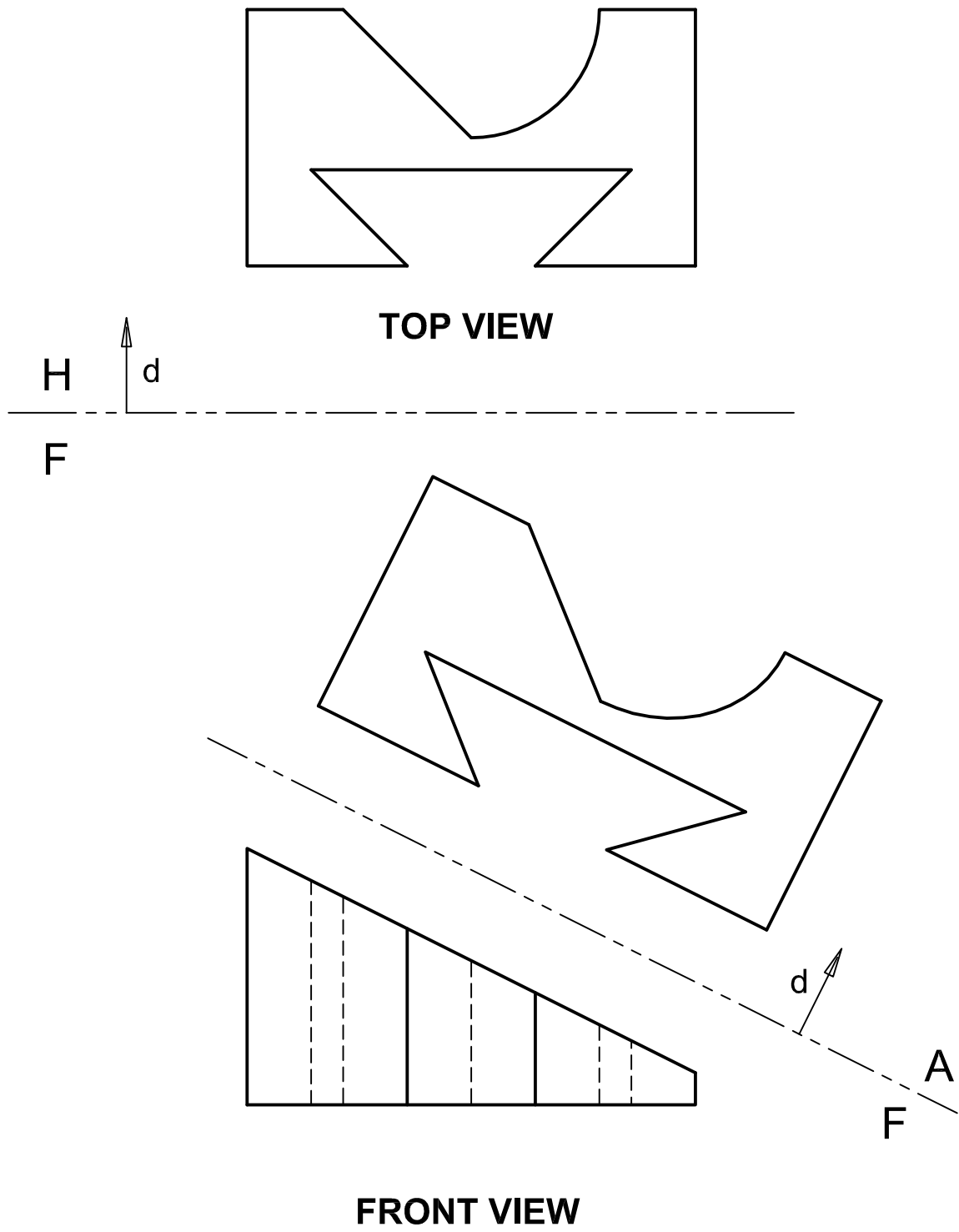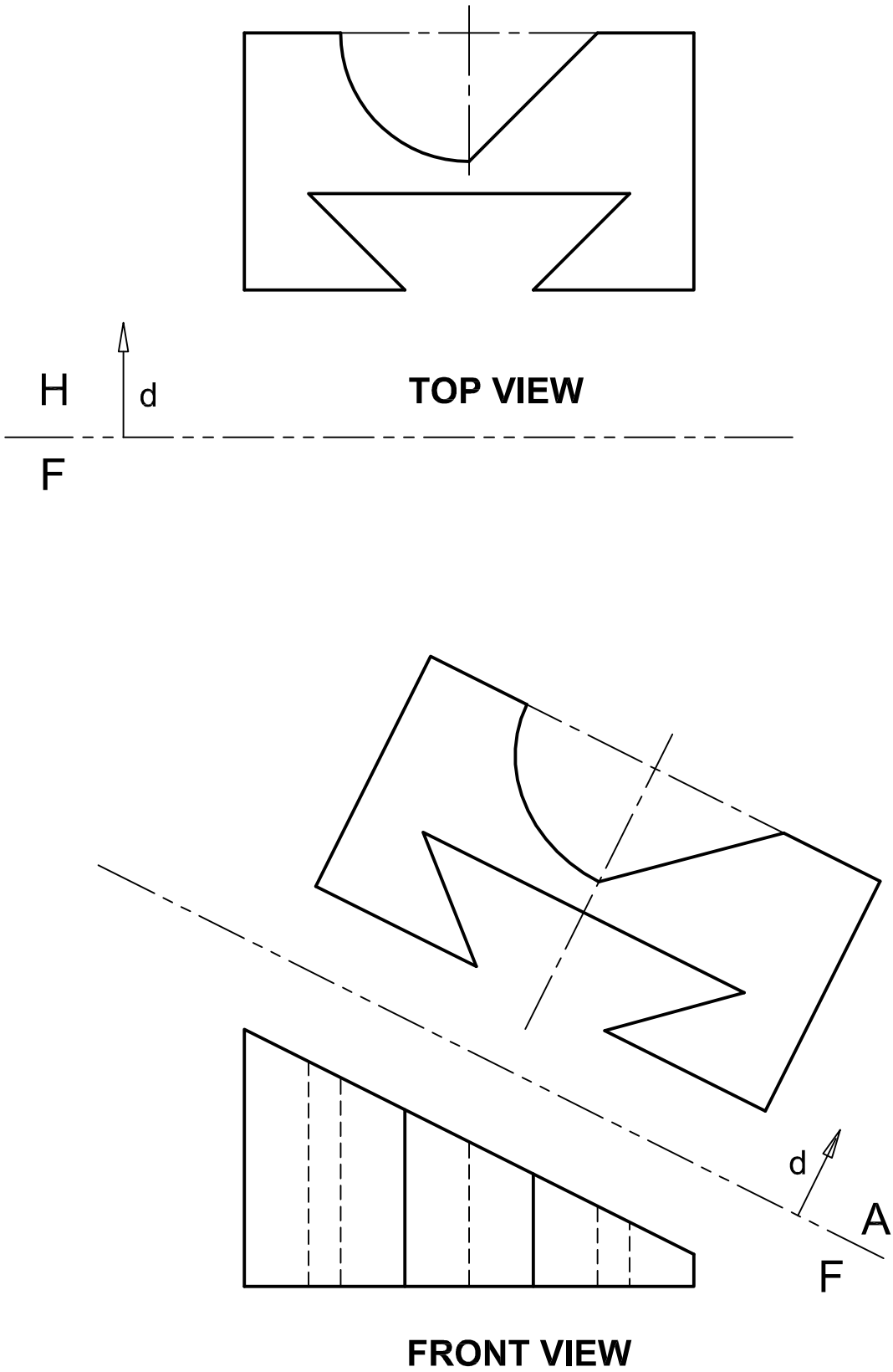
40

5

Ø15

R20

20

40

20

10

10

R20

50

10

100

B

Q5. The top and front views of an object are shown below. Draw the normal view of the inclined surface. **(10 Marks)**

TOP VIEW

H
d

F

FRONT VIEW

d

A
F

Q5. The top and front views of an object are shown below. Draw the normal view of the inclined surface. **(10 Marks)**

TOP VIEW
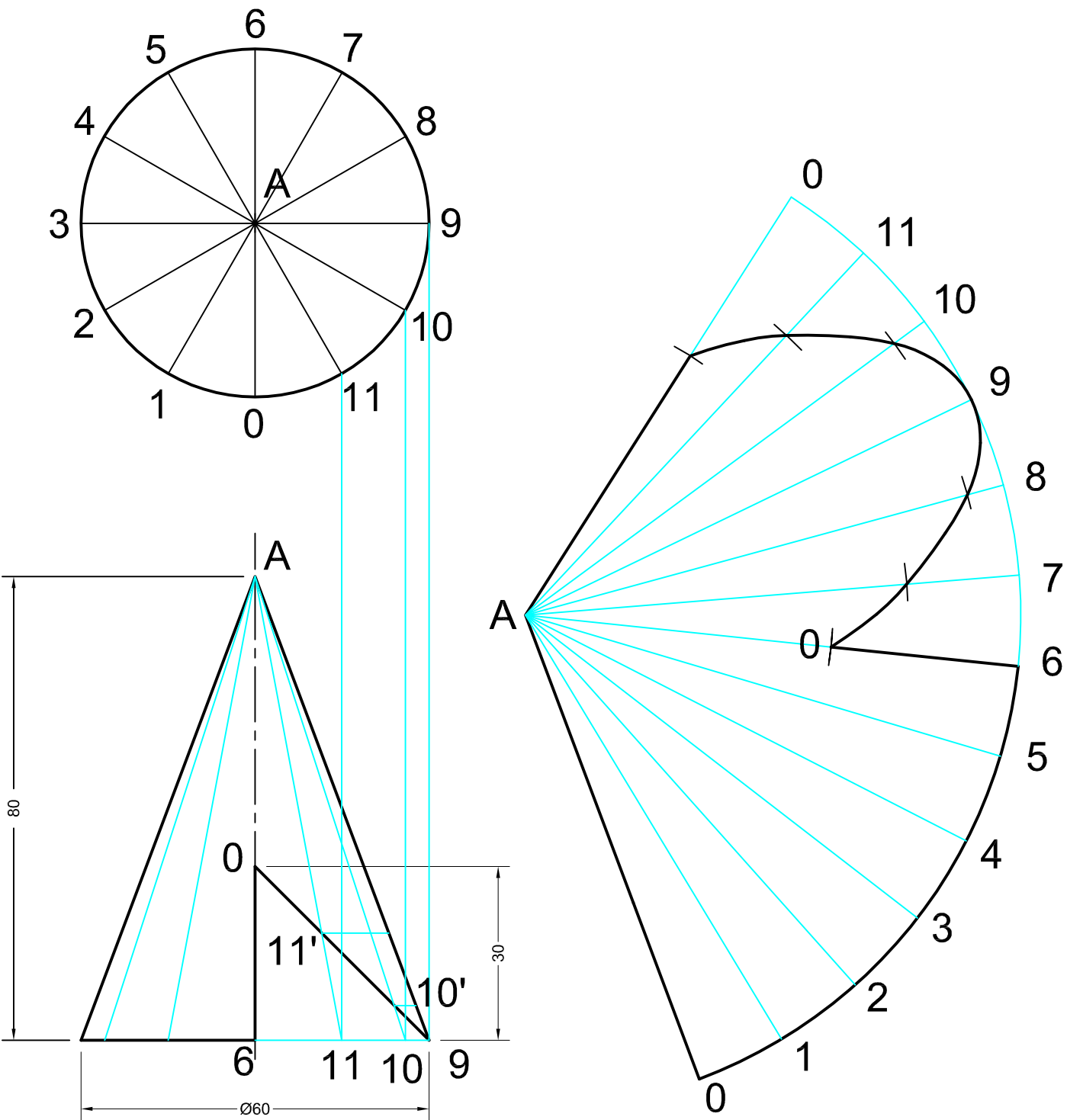
H
d

F

FRONT VIEW

d

A
F

Q6. Draw the intersection curve between cone and hexagonal prism as shown below. **(20 Marks)**
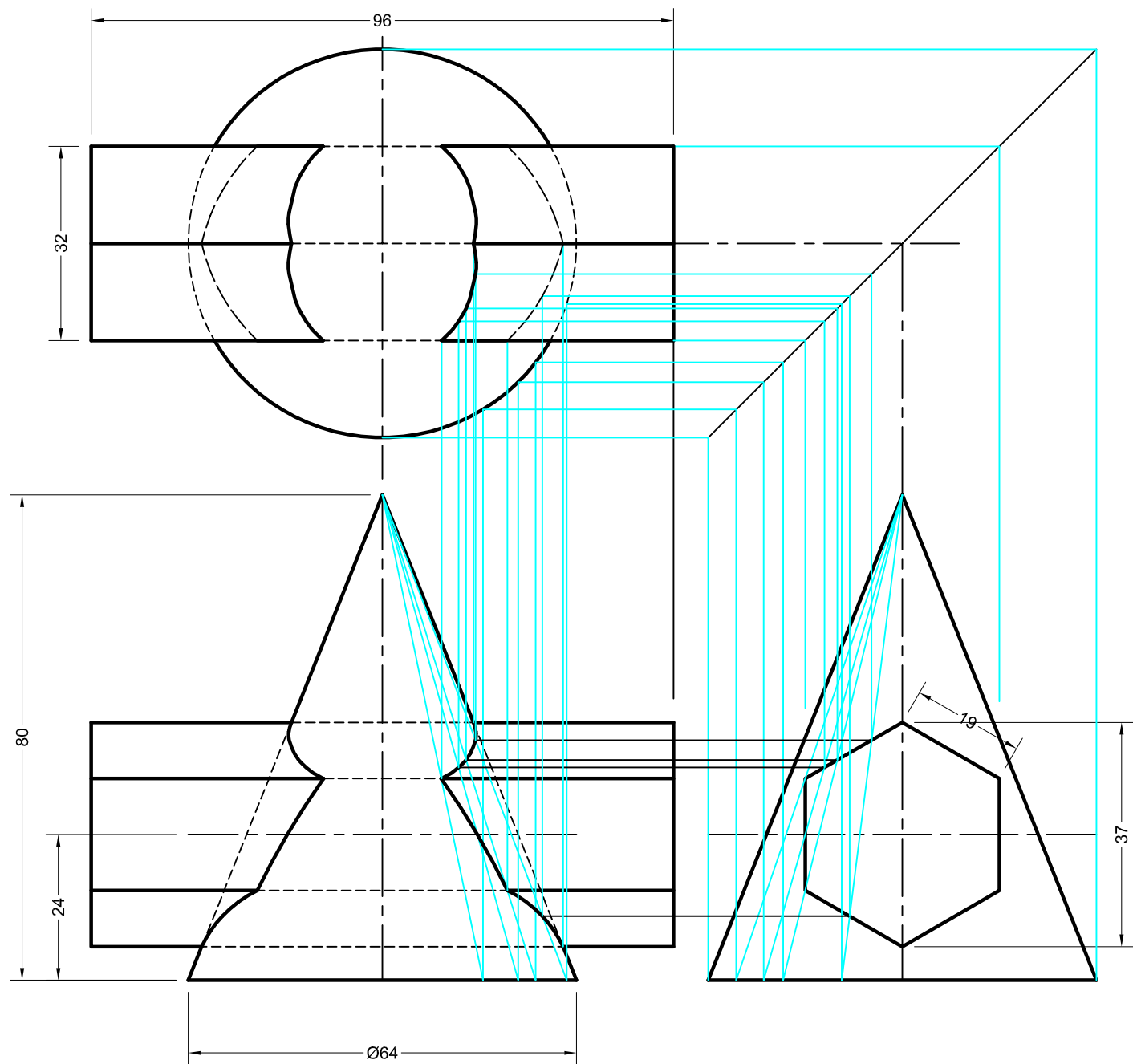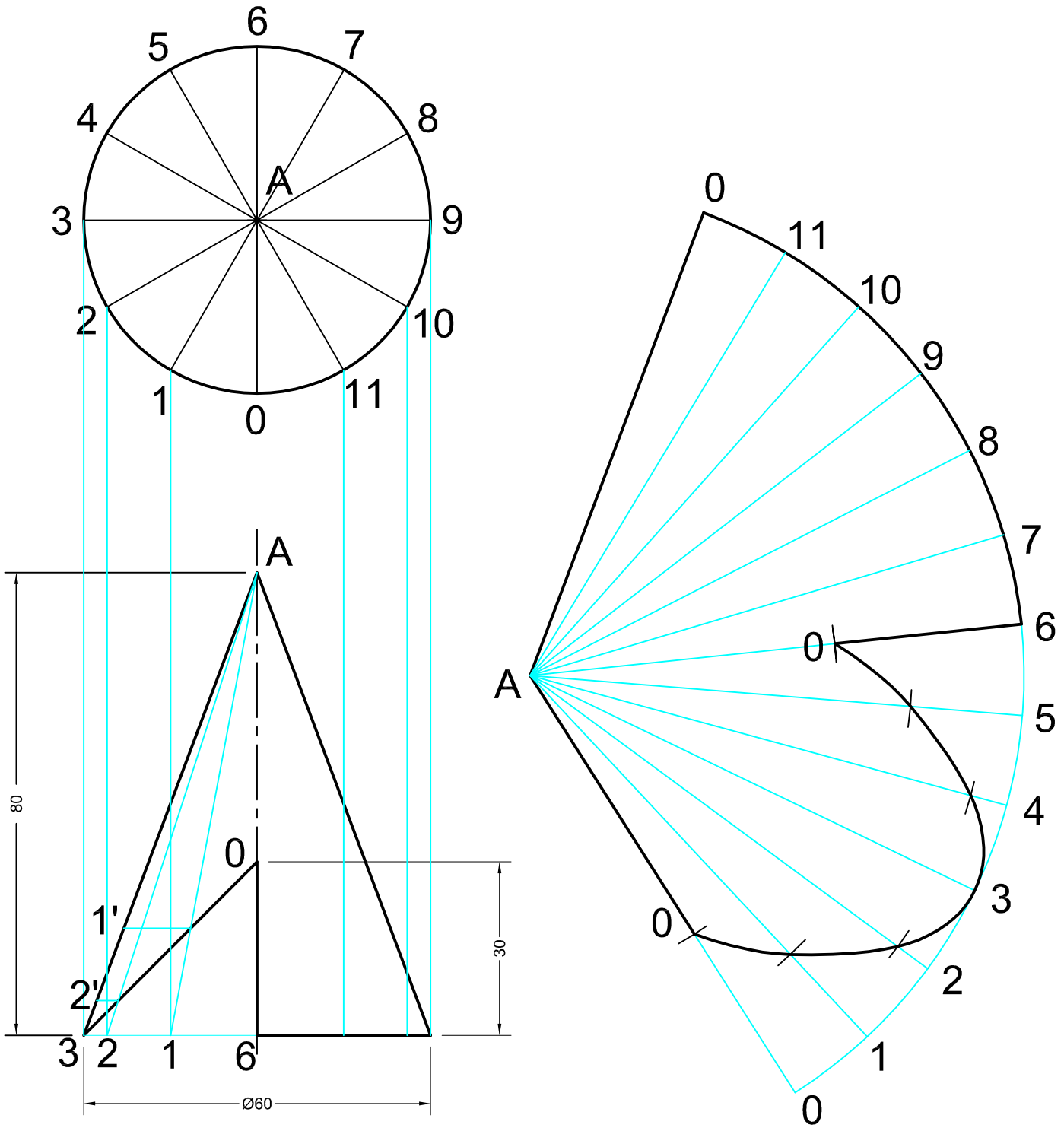
Q7. Develop the lateral surface of a hollow truncated cone as shown below. **(15 Marks)**

A

Q7. Develop the lateral surface of a hollow truncated cone as shown below. **(15 Marks)**

B