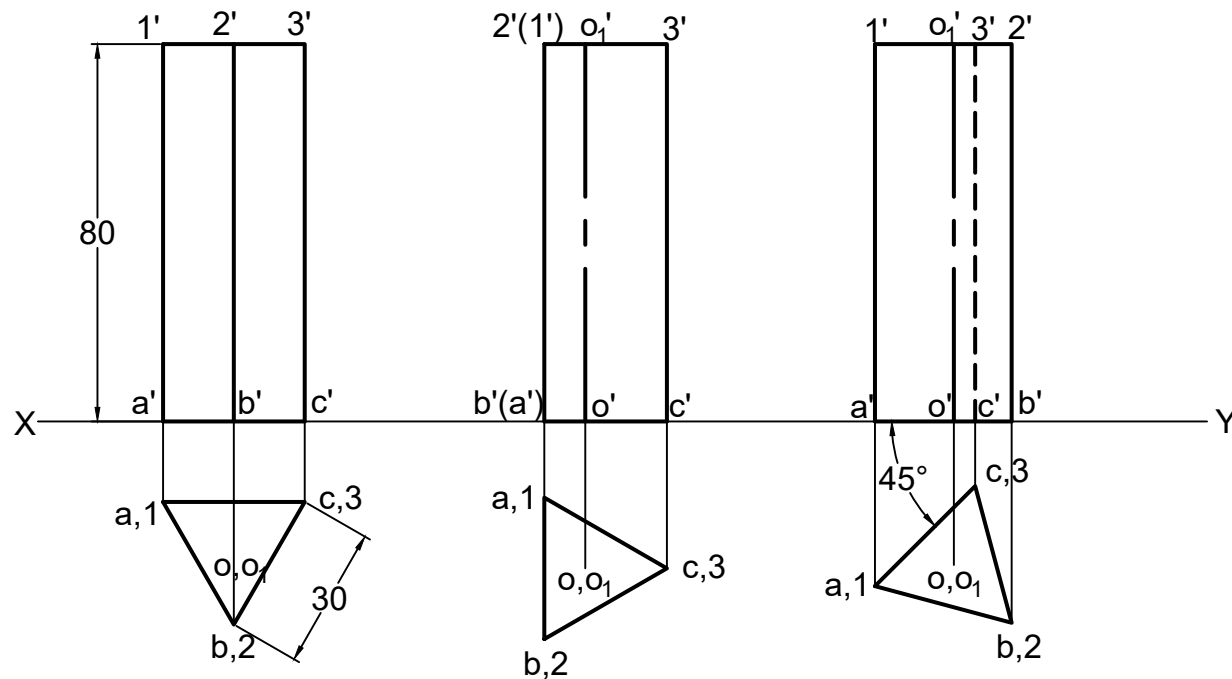1. A triangular prism having a base with 30 mm side and height 80 mm
whose axis is parallel to V.P. Draw Its projections When
a. A side of the base is parallel to the H.P/V.P.
b. A side of the base is perpendicular to V.P.
c. A side of the base is inclined at 45° to the V.P.

Note: All dimensions are in mm

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2. A square prism of side 40 mm and height 65 mm is resting on one
of its bases on V.P. Draw Its projections When
a. A side of the base is parallel to the V.P./H.P.
b. A side of the base is perpendicular to H.P.
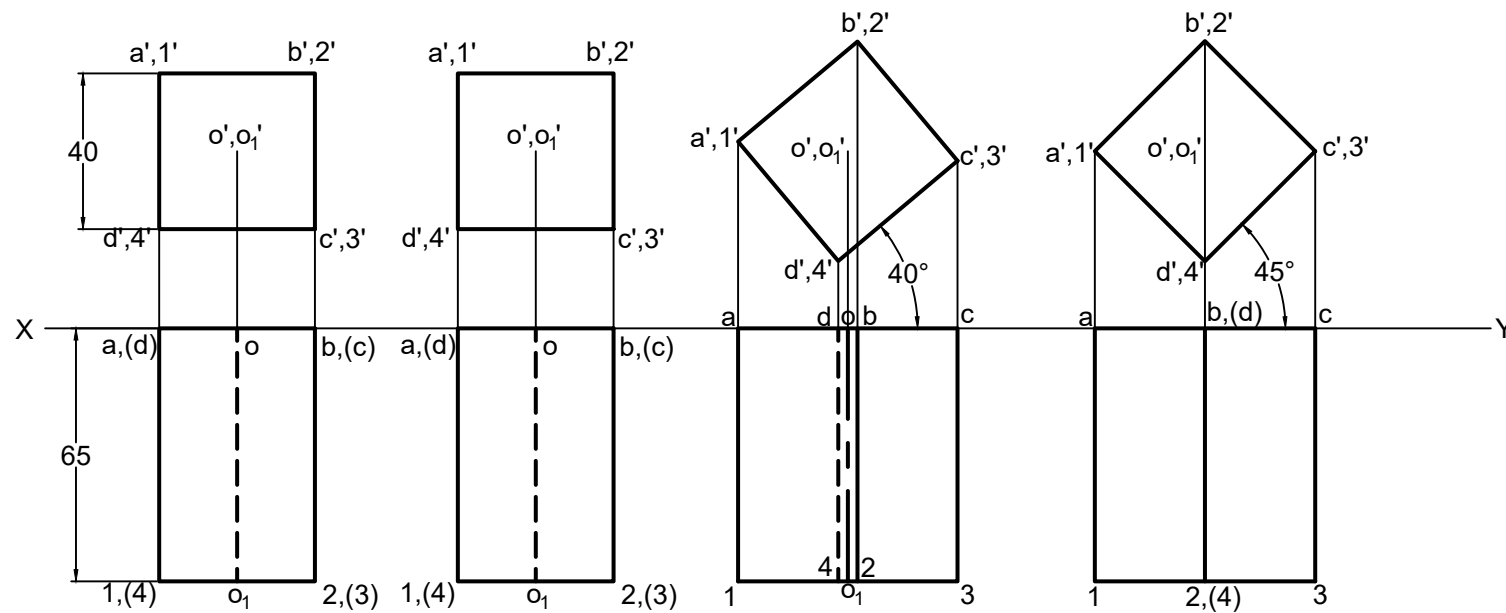c. A side of the base is inclined at 40° to the H.P.
d. Sides of the base are equally inclined to H.P.
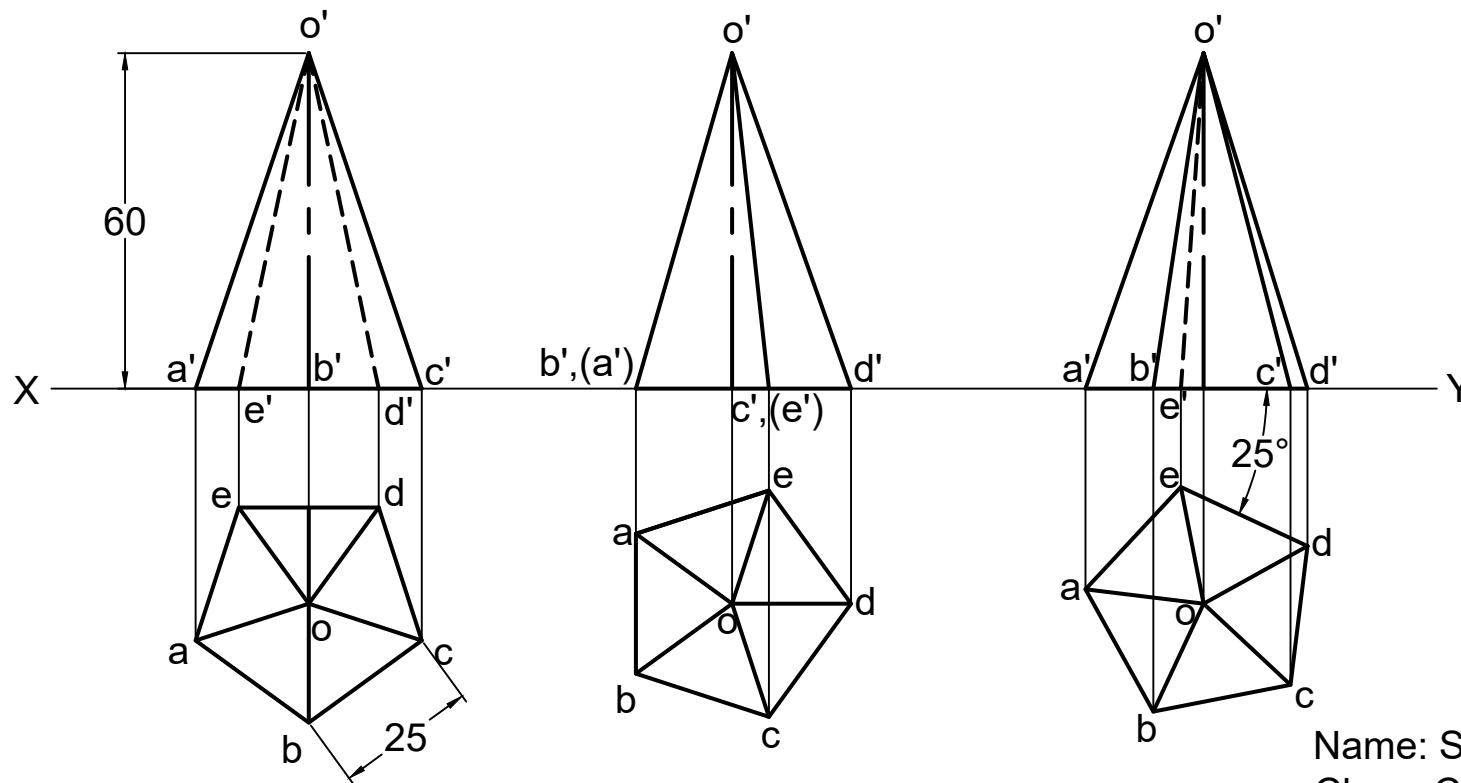
Note: All dimensions are in mm

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3. A Pentagonal pyramid, having base with a 25 mm side and height 60 mm which is resting on its base on the H.P. Draw its Projections when
a. A side of the base is parallel to the V.P/H.P.
b. A side of the base is perpendicular to V.P.
c. A side of the base is inclined at 25° to the V.P.

Note: All dimensions are in mm

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4. A hexagonal pyramid having a base with 45 mm side and height 90 mm whose axis is parallel to H.P. Draw Its projections When
a. A side of the base is parallel to the V.P./H.P.
b. A side of the base is perpendicular to H.P.
c. A side of the base is inclined at 45° to the H.P.
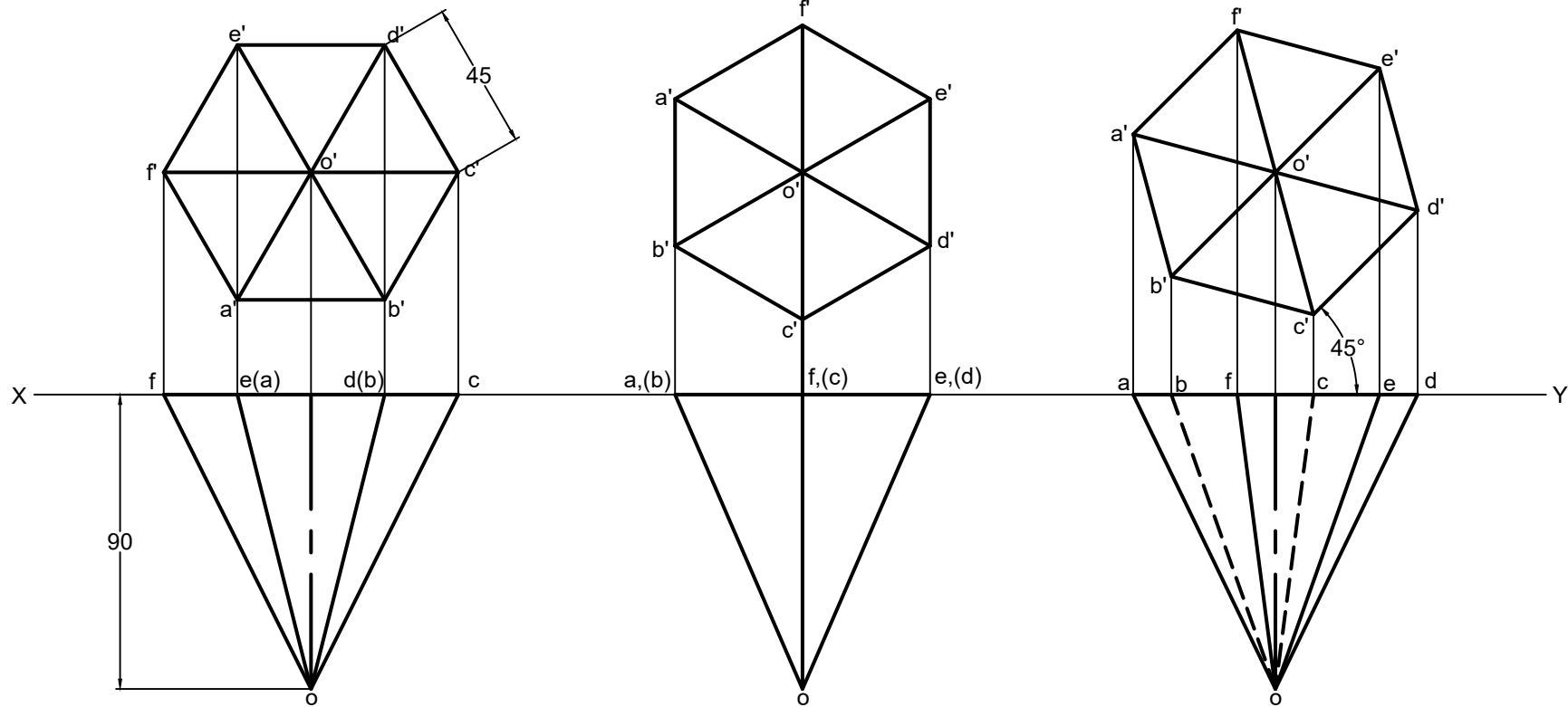
Note: All dimensions are in mm
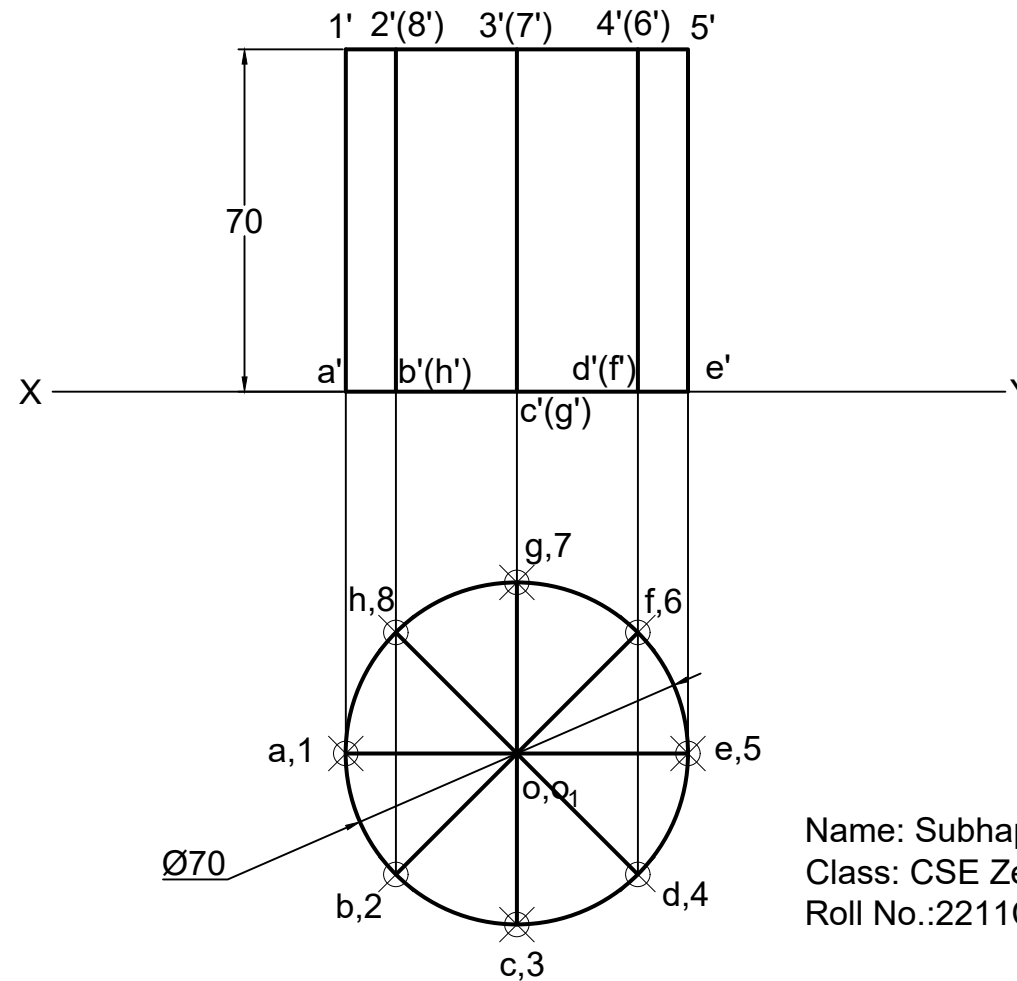

45

e' d' f' o' c' f' a' b'

90

o

a' e' o' b' d' c' f,(c) e,(d) a,(b)

o

f' e' a' o' b' c' d' 45°

a b f c e d

o

X ——— Y

f e(a) d(b) c

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5. Draw the projections of a cylinder of diameter 70 mm and 85 mm
long axis is parallel to H.P.

Note: All dimensions are in mm

1' 2'(8')   3'(7')   4'(6') 5'

70

X ——— a'   b'(h')   d'(f')   e' ——— Y
c'(g')

g,7

h,8   f,6

a,1   e,5
o,o₁

Ø70

b,2   d,4

c,3

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6. Draw the projections of a cone of diameter 60 mm and 75 mm long whose axis is parallel to V.P
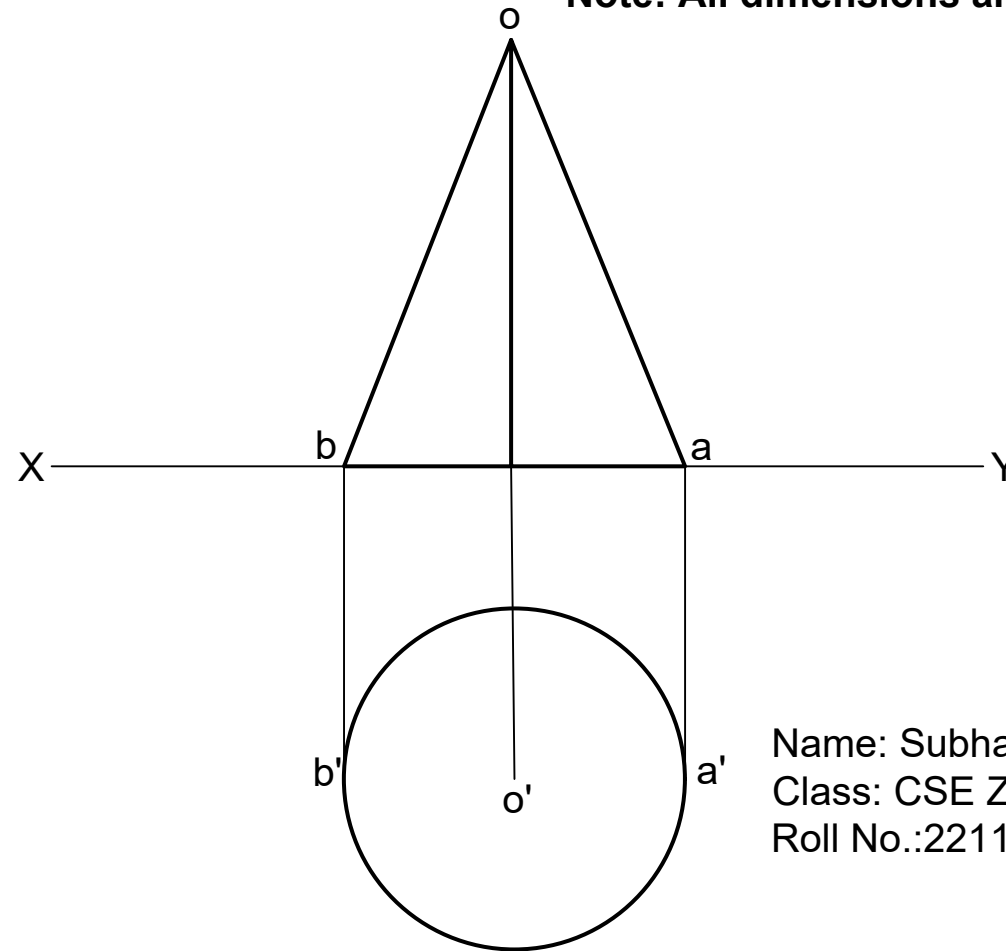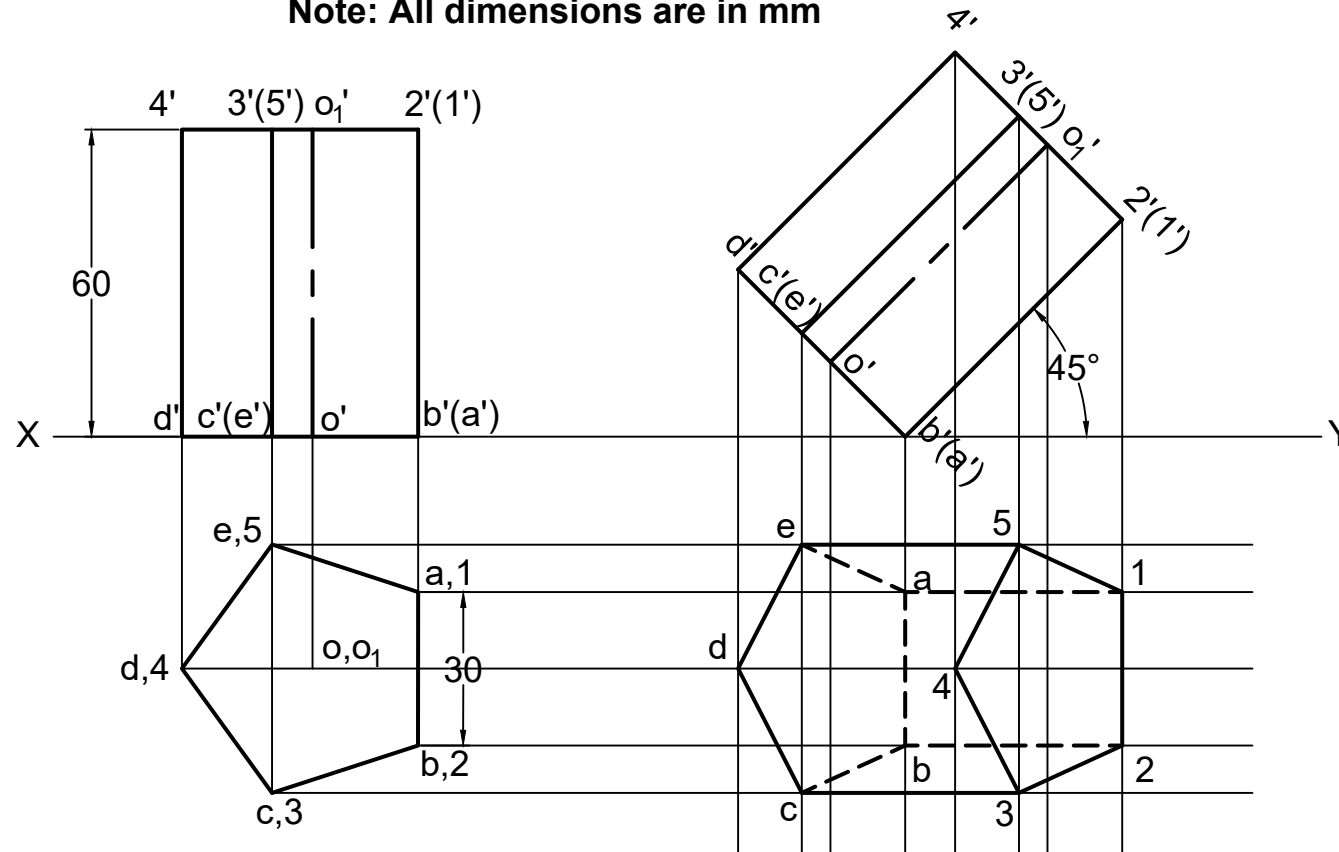
Note: All dimensions are in mm

o

b   a

X ———————————————————— Y

b'   a'

o'

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7. A pentagonal prism of base edge 30 mm and axis 60 mm rests on an edge of its base in the H.P. Its axis is parallel to V.P. and inclined at 45° to the H.P. Draw its projections.

Note: All dimensions are in mm

4'

3'(5') o_1'   2'(1')

60

d' c'(e')   o'   b'(a')

X —————————————————————————————————— Y

e,5
a,1
o,o_1
30
d,4
b,2
c,3

4'

3'(5') o_1'

2'(1')

d'
c'(e')
o'
45°
b'(a')

e   5
a   1
d
4
c   3
b   2

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8. A hexagonal pyramid of base side 30 mm and axis 60 mm has an edge of its base on the ground. Its axis is inclined at 30° to the ground and parallel to the V.P. Draw its projections.

o'

60

b'(a')   c'(f')   d'(e')

X —————————————————————————————— Y

b'(a')

c'(f')

o,

30°

d'(e')

f

a   e

o   30

b   d

c

f

a
e

b   o

d

c
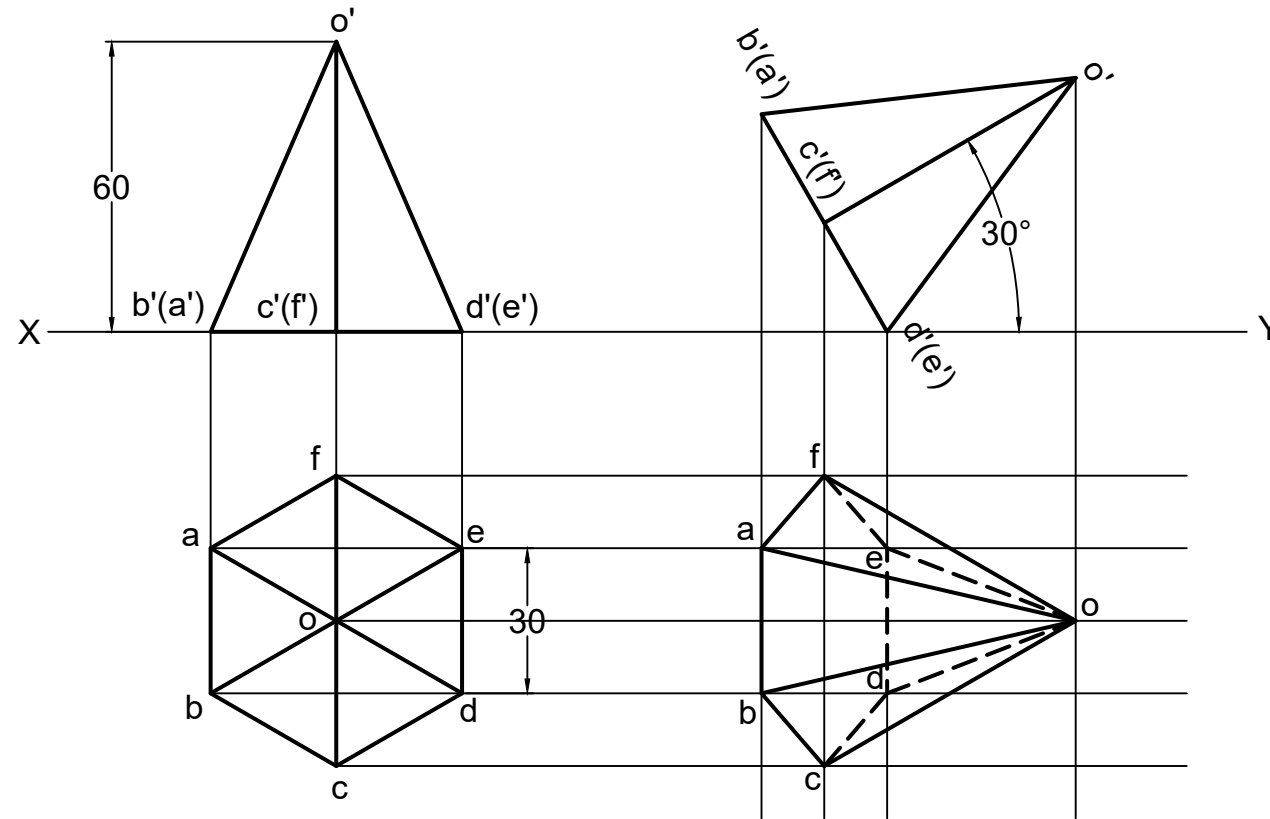
Note: All dimensions are in mm

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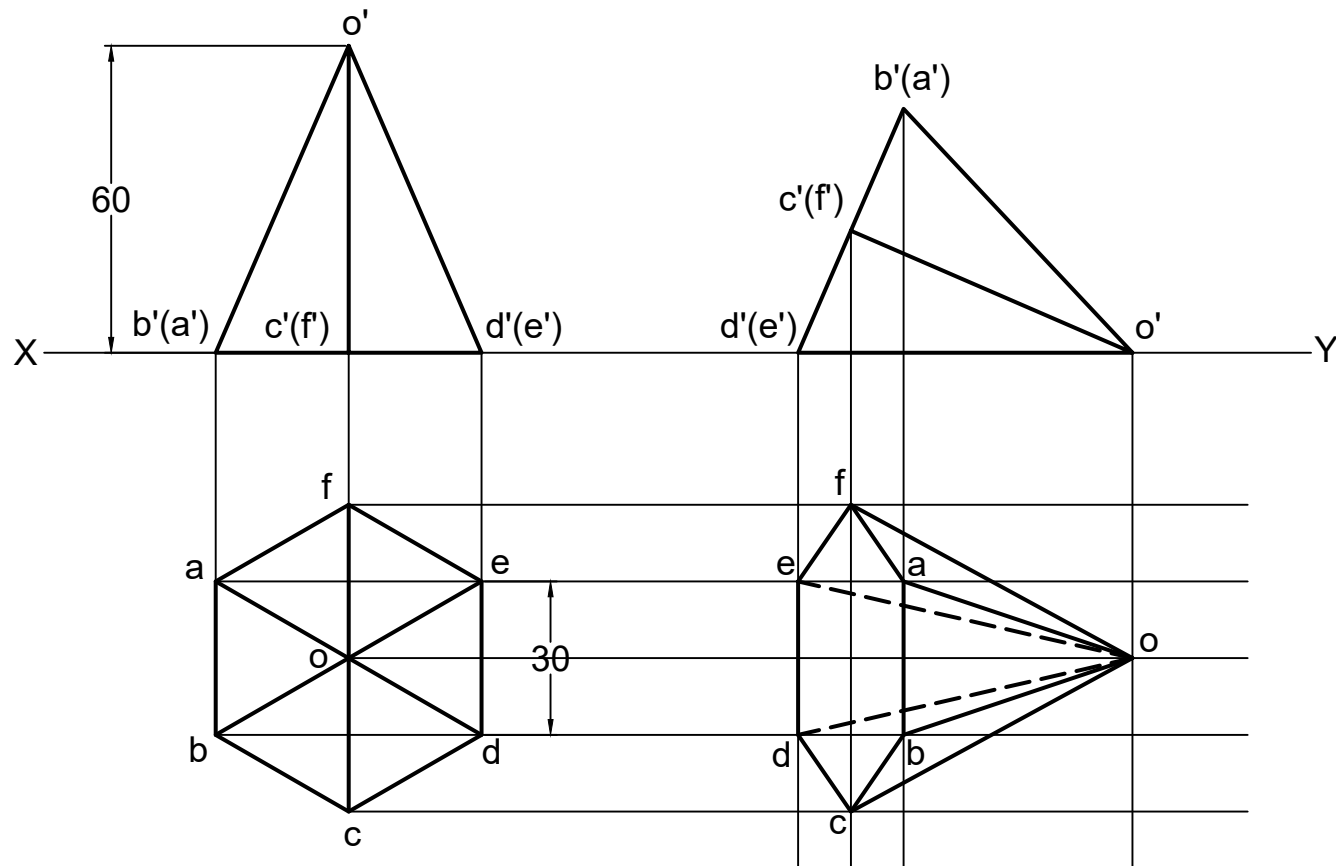Roll No.:2211CS010547

9. A hexagonal pyramid of base edge 30 mm and axis 60 mm, has a
triangular face on the ground and the axis parallel to the V.P.
Draw its projections.

Note: All dimensions are in mm

X ——————————————————————————————————————— Y

60

o'

b'(a')   c'(f')   d'(e')

b'(a')

c'(f')

d'(e')   o'

f   f

a   e   e   a

o   o
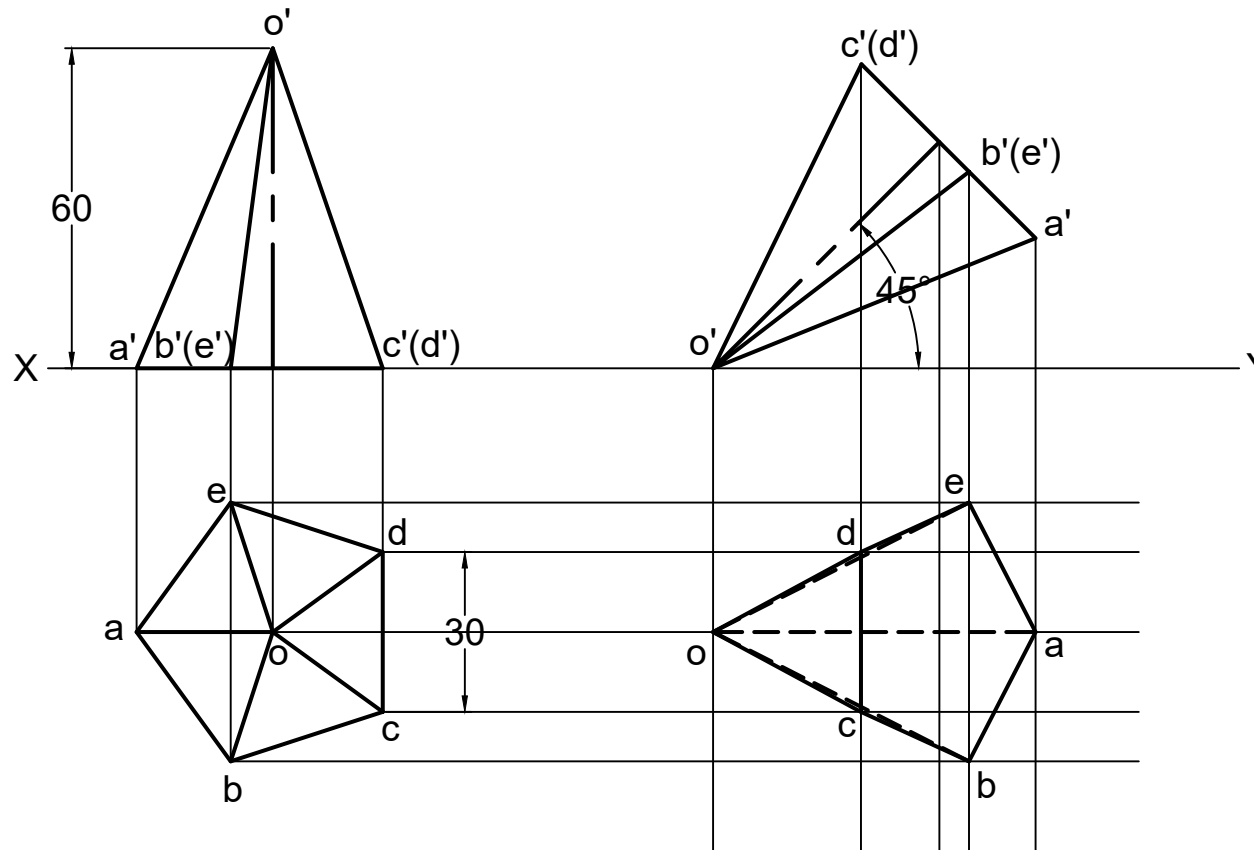
30

b   d   d   b

c   c

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10. A pentagonal pyramid of base side 30 mm and axis 60 mm has an edge of base parallel to H.P. Its axis is parallel to V.P. and inclined at 45° to the H.P. Draw its projections when the apex lies in the H.P
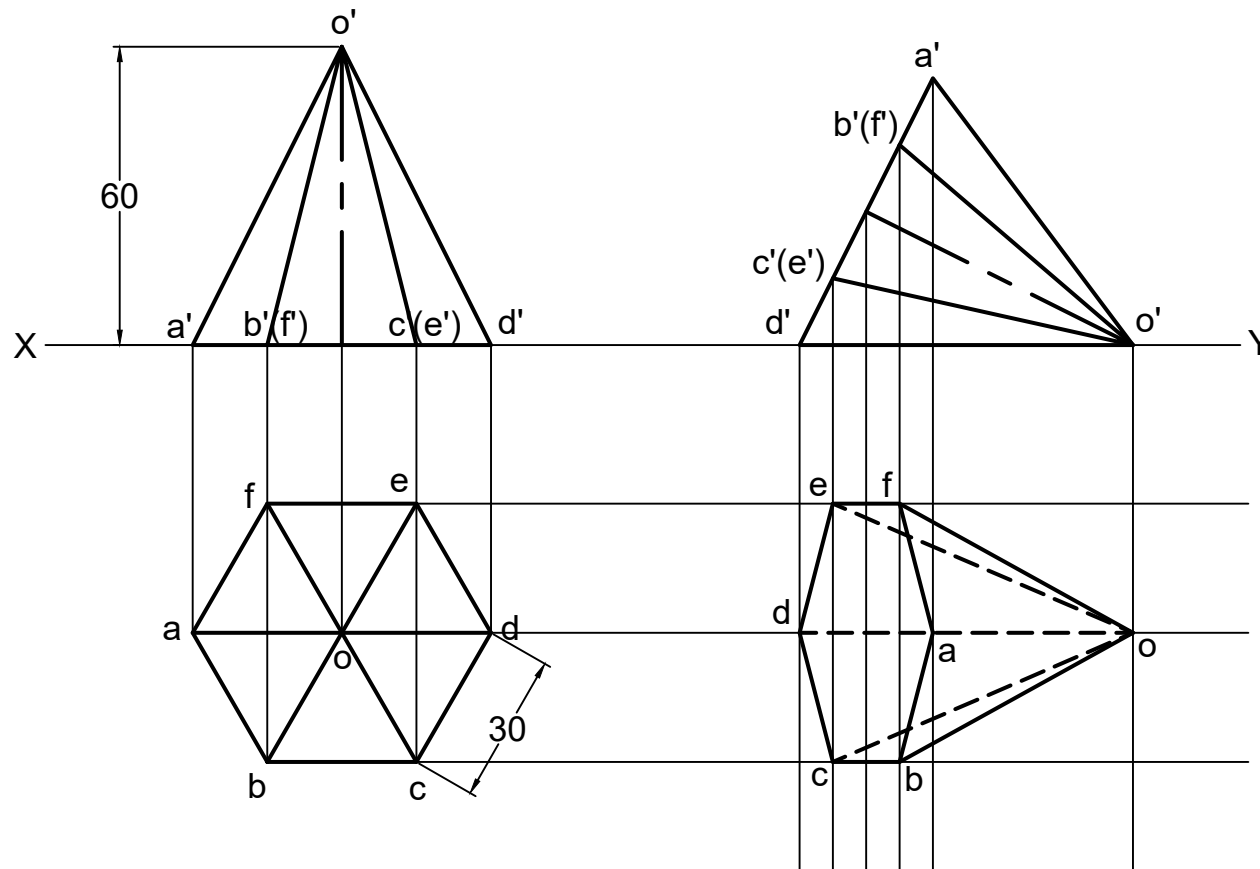
Note: All dimensions are in mm

o'

c'(d')

b'(e')

a'

60

45°

X ——— a' b'(e')   c'(d')   o' ——— Y

e

d

e

d

30

a

o

c

o

a

b

c

b

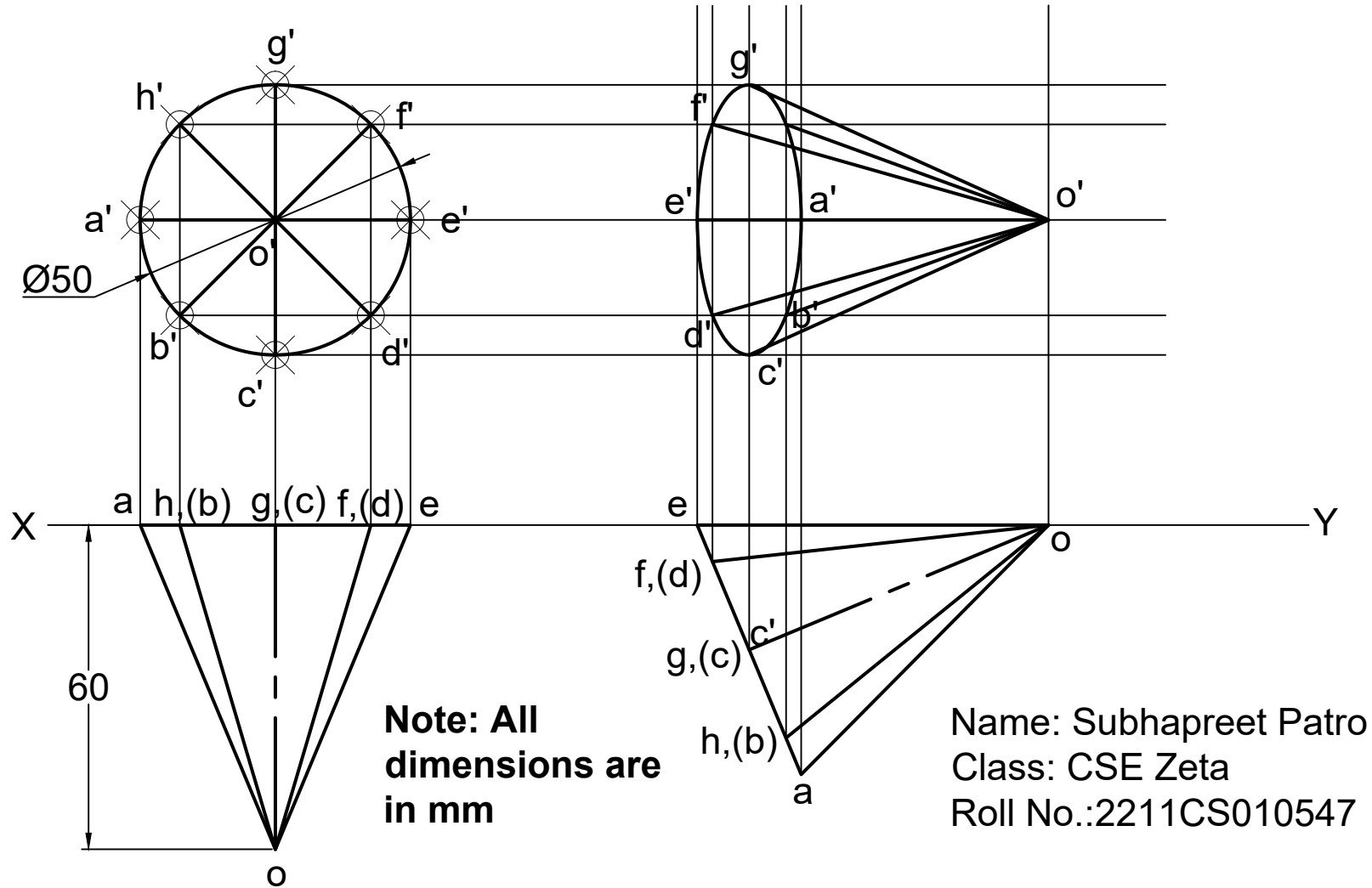Name: Subhapreet Patro
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11.A hexagonal pyramid of base edge 30 mm and axis 60 mm, is lying on a slant edge on the ground with the axis parallel to the V.P. Draw its projections when the face containing the resting edge are equally inclined to the H.P.
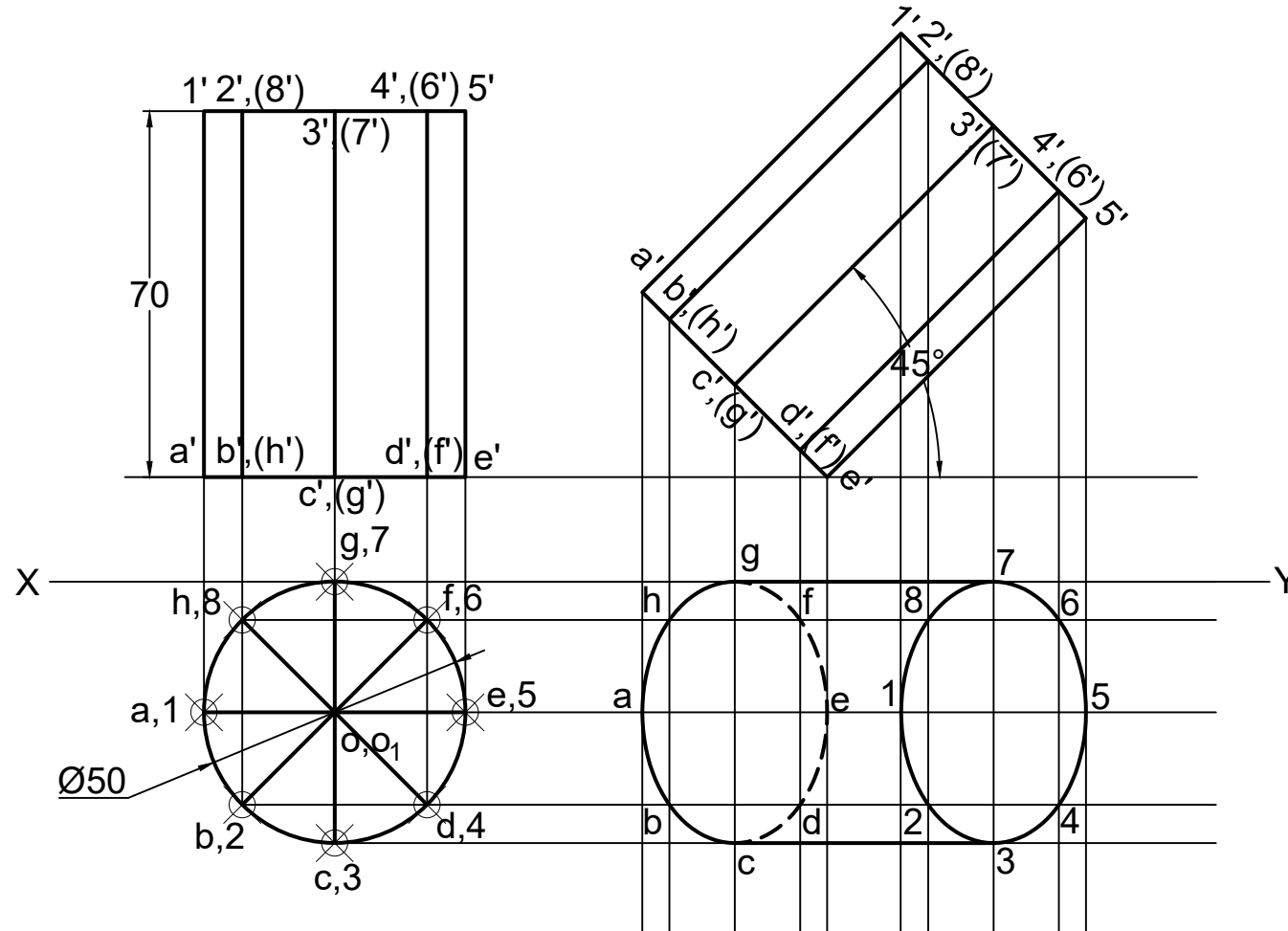
Note: All dimensions are in mm

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12.A cone of base diameter 50 mm and axis 60 mm has a generator in the V.P. and the axis parallel to the H.P. Draw its projections.

g'

h'

f'

a'   e'   a'   o'

Ø50   e'

o'   b'

b'   d'

d'   c'

c'

X   a h,(b) g,(c) f,(d) e   e   o   Y

f,(d)

60

g,(c) c'

Note: All dimensions are in mm   h,(b)

a

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o

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13.A cylinder of base diameter 50 mm and axis 70 mm has a generator
in the V.P. and inclined at 45° to the H.P. Draw its projections.

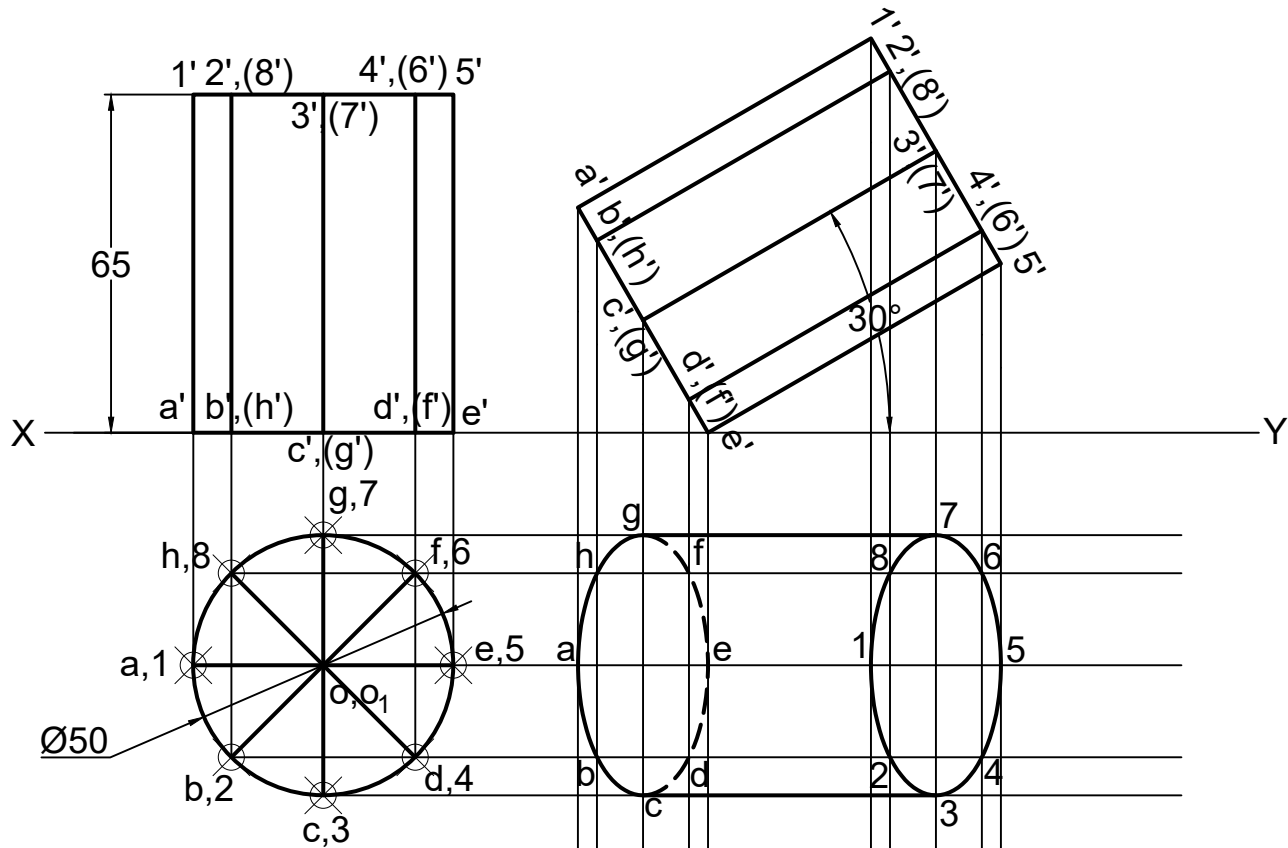**Note: All dimensions are in mm**

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14.A cylinder of base diameter 50 mm and axis 65 mm rests on a point
of its base circle on the H.P. Draw its projections when the axis is
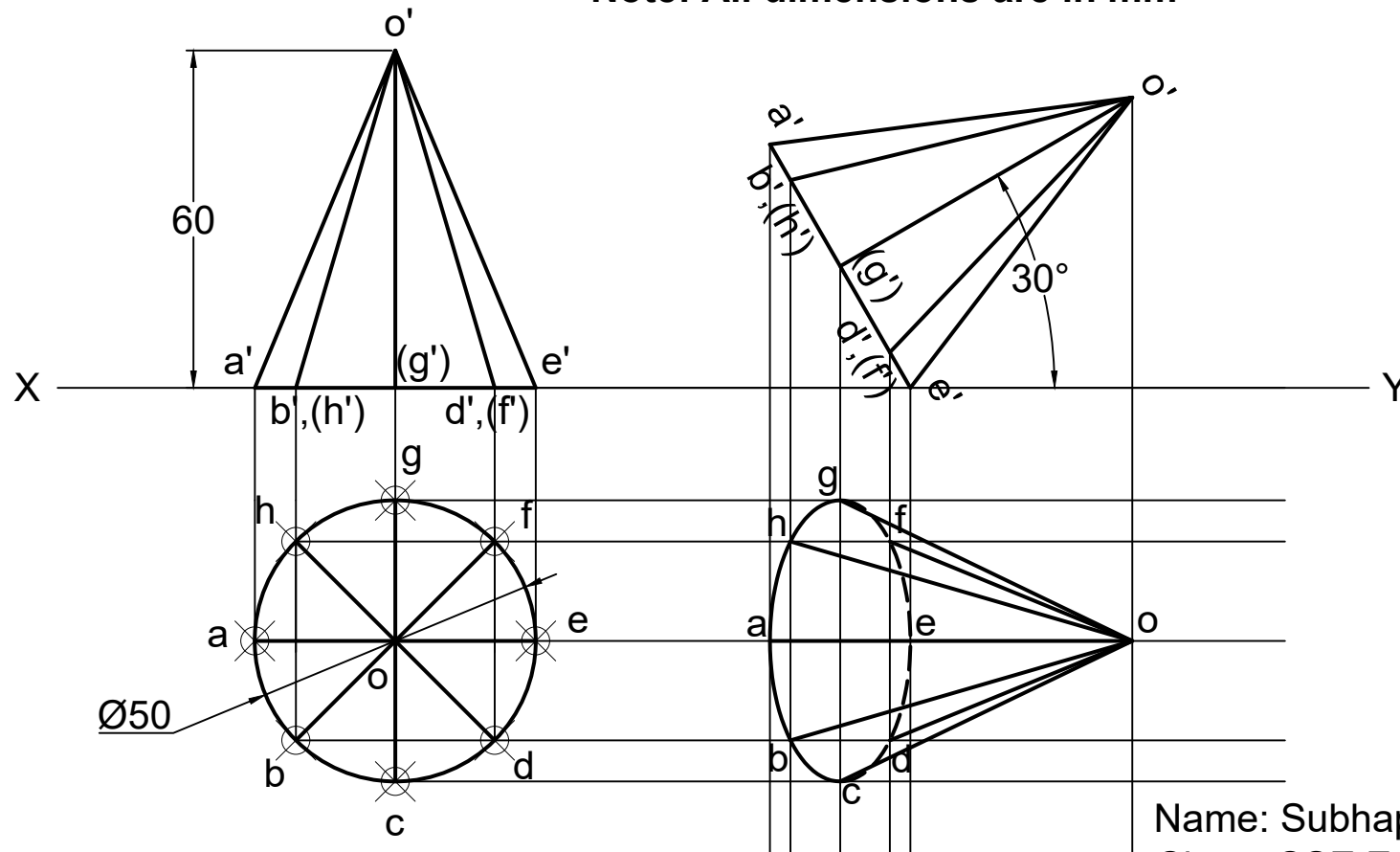inclined at 30° to the H.P.

Note: All dimensions are in mm

X — Y

Ø50

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15.Draw the projections of a cone of base diameter 50 mm and axis 60 mm resting on a point of the base circle on the ground with axis inclined at 30° to the H.P

Note: All dimensions are in mm

o'

60

a'   (g')   e'

X ————————————————————————— Y

b',(h')   d',(f')

g

h   f

a   o   e

Ø50

b   d

c

a'

b',(h')

(g')

d',(f')

e'

o,

30°

g

h   f

a   e   o

b   d

c

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