Line on both HP & VP

A line AB, 60mm long lies on both the HP and VP. Draw its projection.   J1

VP

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

HP

Above HP

Infront of VP

Line on both HP & VP

A line AB, 60mm long lies on both the HP and VP. Draw its projection.   J1

FRONT VIEW

VP

a'   b'

X —— Y

HP

a   b

Above HP

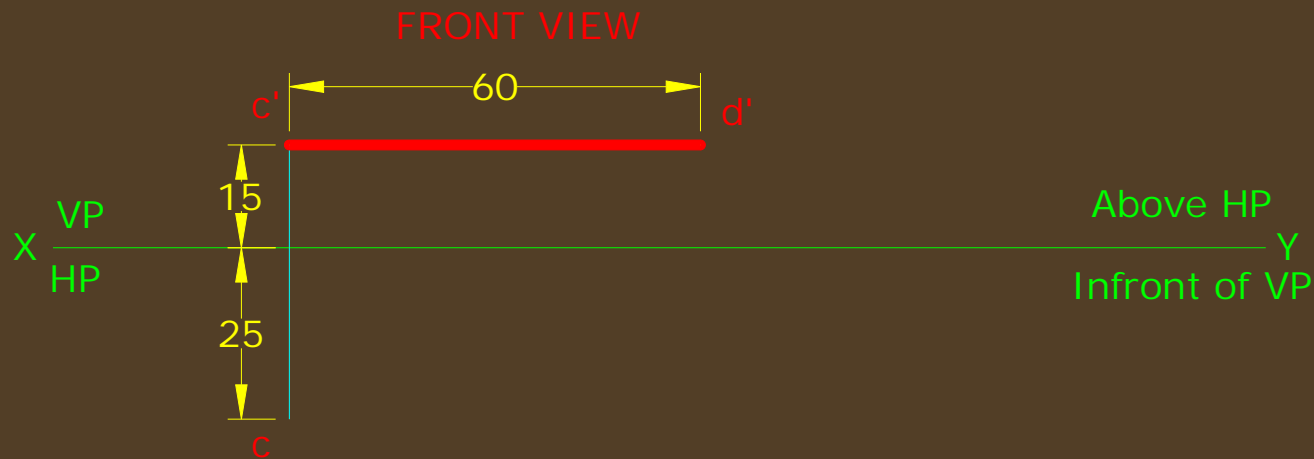Infront of VP

|← 60 →|

TOP VIEW

Line parallel to both HP & VP

A line CD 50mm long has its end C, 15mm above HP and 25mm in front of VP. The line is kept parallel to both HP and VP. Draw its projections.   J2

VP

Above HP

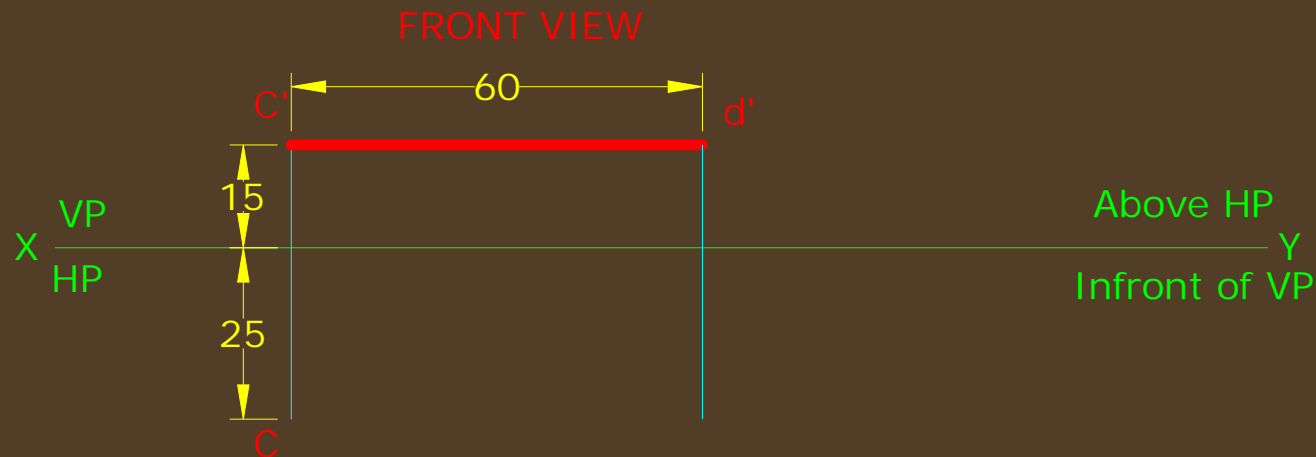X ——————————————————————————— Y

HP

Infront of VP

Line parallel to both HP & VP

A line CD 50mm long has its end C, 15mm above HP and 25mm in front of VP. The line is kept parallel to both HP and VP. Draw its projections.   J2
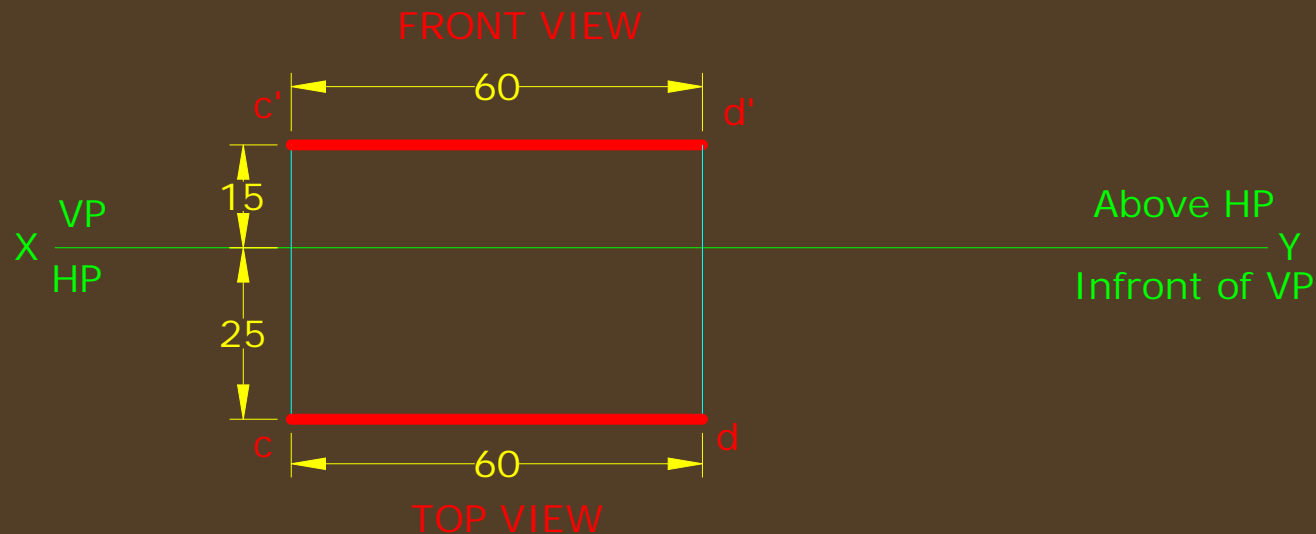
Line parallel to both HP & VP

A line CD 50mm long has its end C, 15mm above HP and 25mm in front of VP. The line is kept parallel to both HP and VP. Draw its projections.   J2

FRONT VIEW

c' |← 60 →| d'

VP

X ——————————————————————————— Y

HP

15

25

Above HP

Infront of VP

c

Line parallel to both HP & VP

A line CD 50mm long has its end C, 15mm above HP and 25mm in front of VP. The line is kept parallel to both HP and VP. Draw its projections.   J2

FRONT VIEW

C' |← 60 →| d'

15

VP

X ————————————————————————————— Y

HP

Above HP

Infront of VP

25

C

Line parallel to both HP & VP

A line CD 50mm long has its end C, 15mm above HP and 25mm in front of VP. The line is kept parallel to both HP and VP. Draw its projections.   J2
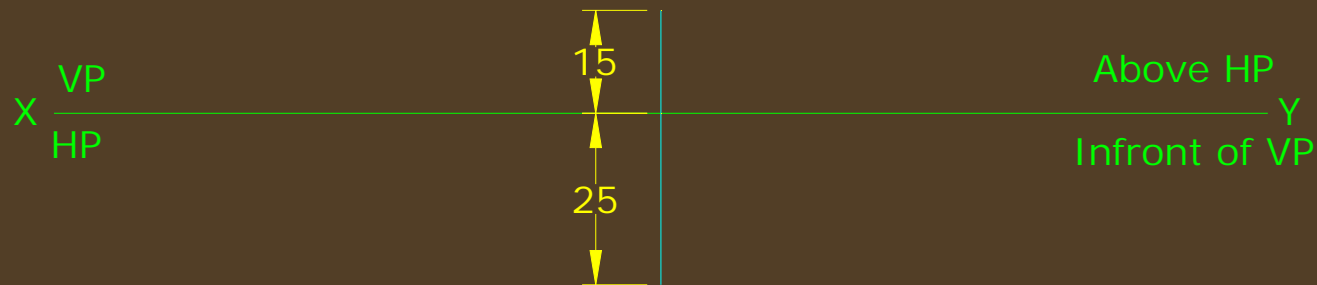
Line parallel to VP & perpendicular to HP

A line EF 55mm long has its end E 15mm above HP and 25mm in front of VP. The line is kept perpendicular to HP and parallel to VP. Draw its projections.   J3
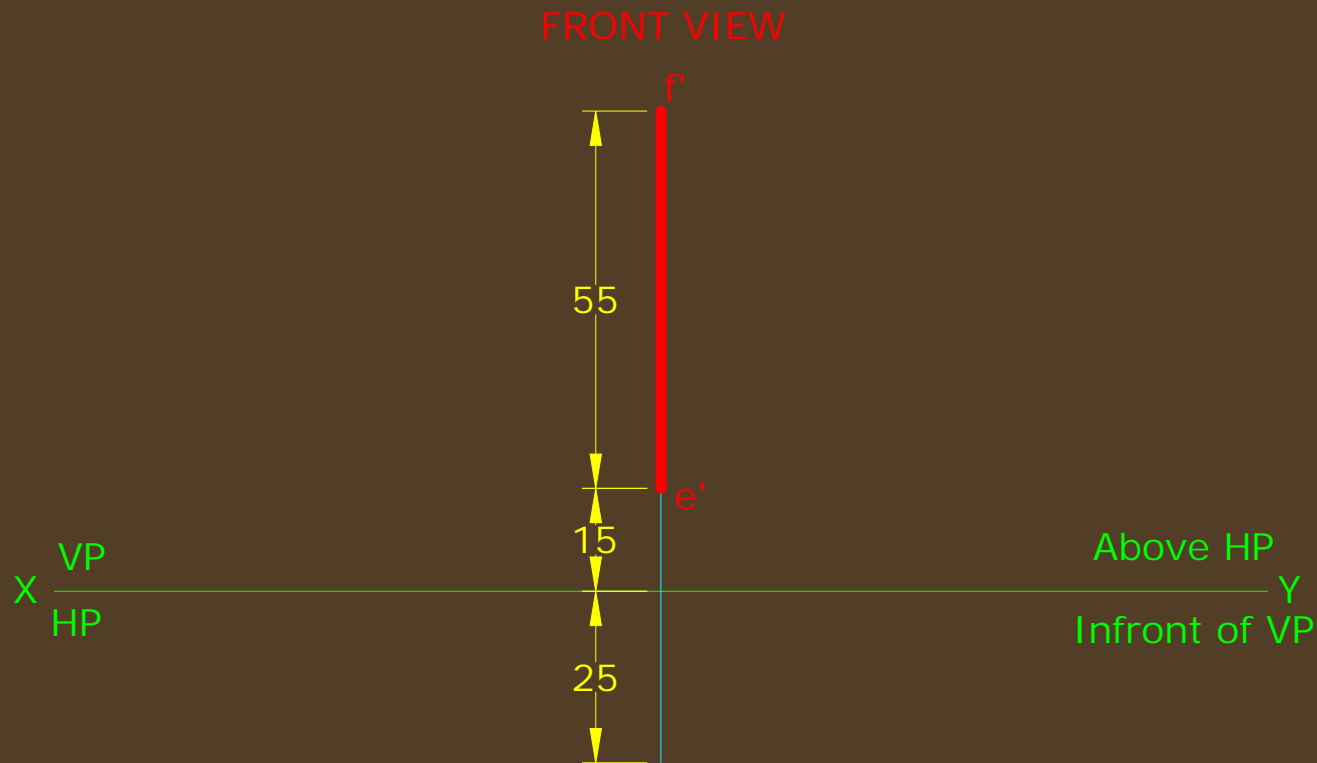
VP

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

HP

Above HP

Infront of VP

Line parallel to VP & perpendicular to HP

A line EF 55mm long has its end E 15mm above HP and 25mm in front of VP. The line is kept perpendicular to HP and parallel to VP. Draw its projections.   J3
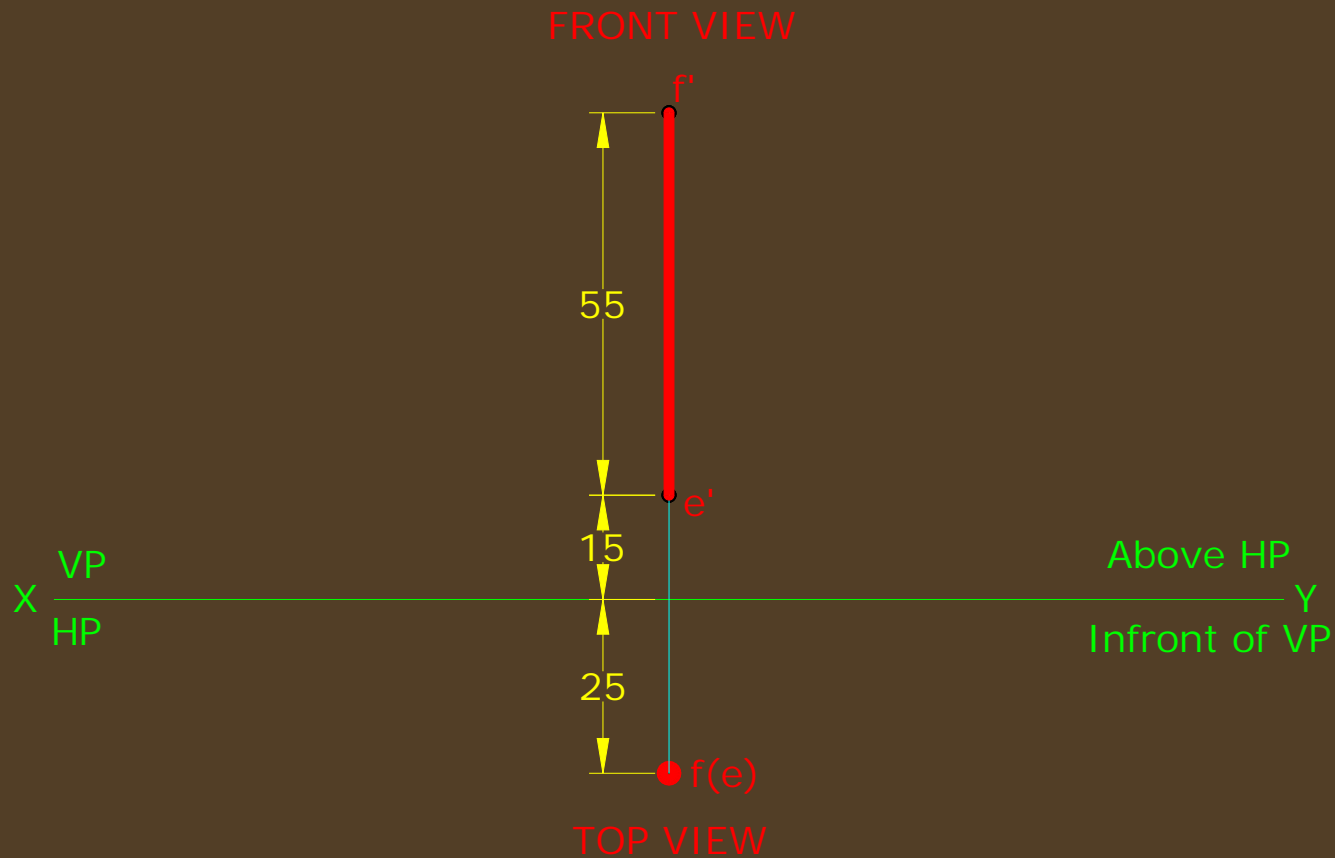
VP

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

HP

15

25

Above HP

Infront of VP

Line parallel to VP & perpendicular to HP

A line EF 55mm long has its end E 15mm above HP and 25mm in front of VP. The line is kept perpendicular to HP and parallel to VP. Draw its projections.   J3

FRONT VIEW

f'

55

e'

15

VP

X ———————————————————————————— Y

HP

Above HP

Infront of VP

25

Line parallel to VP & perpendicular to HP

A line EF 55mm long has its end E 15mm above HP and 25mm in front of VP. The line is kept perpendicular to HP and parallel to VP. Draw its projections.   J3
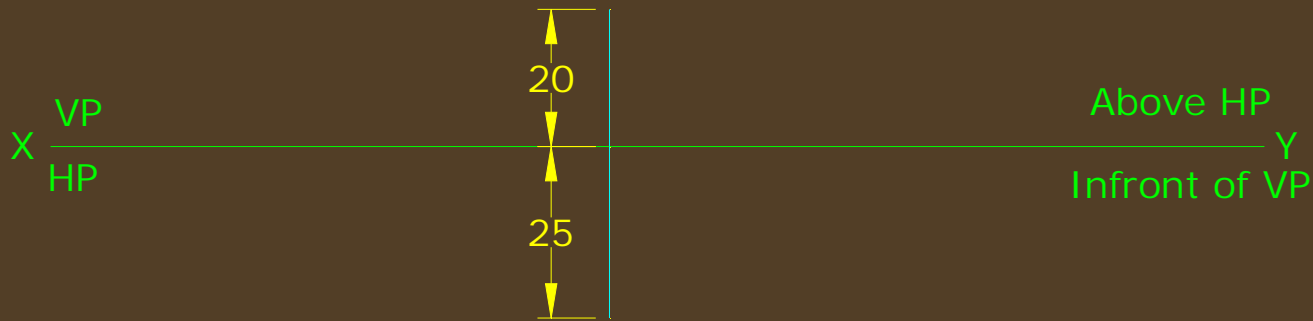

FRONT VIEW

f'

55

e'

15

VP

X ——— Y

HP

Above HP

Infront of VP

25

f(e)

TOP VIEW

Line parallel to HP & perpendicular to VP

A line GH, 50mm long has its end G 20mm above HP and 25mm in front of VP. The line is kept perpendicular to VP and parallel to HP. Draw its projections.   J4
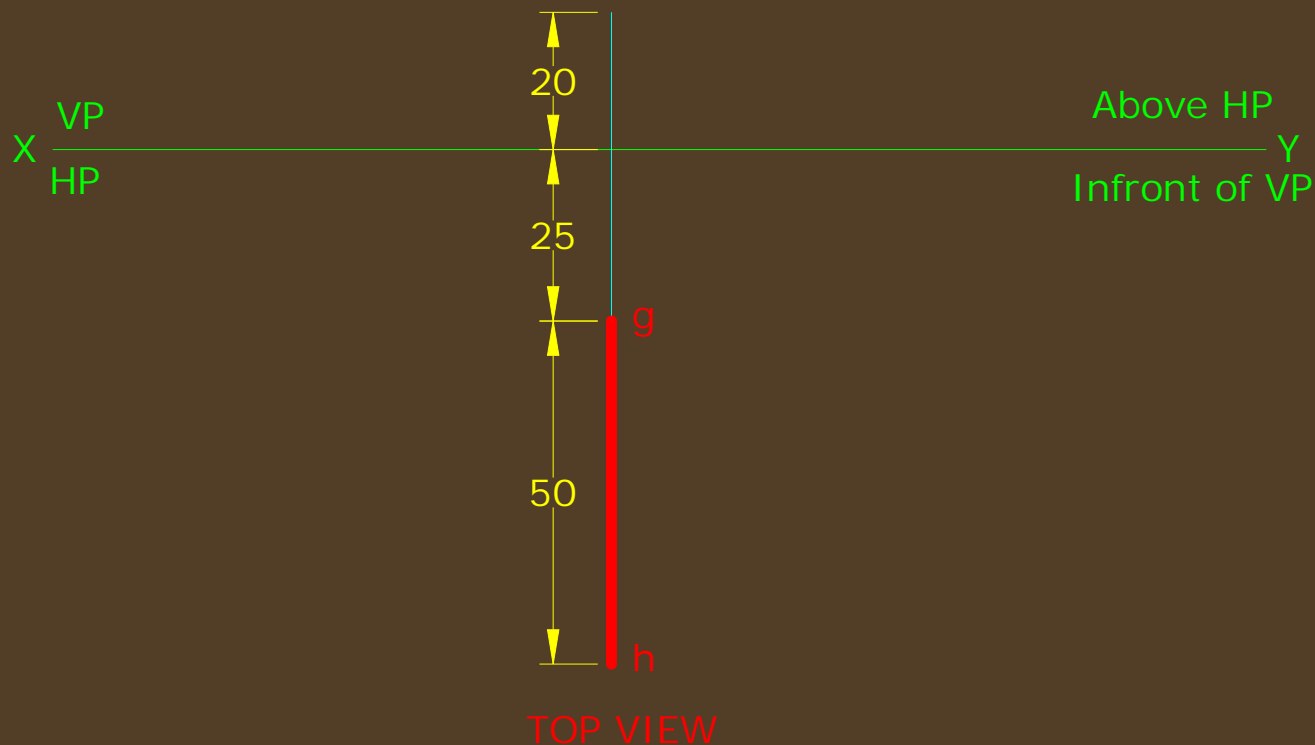
X $\dfrac{\text{VP}}{\text{HP}}$ ——————————————————————— Y

Above HP

Infront of VP

Line parallel to HP & perpendicular to VP

A line GH, 50mm long has its end G 20mm above HP and 25mm in front of VP. The line is kept perpendicular to VP and parallel to HP. Draw its projections.   J4
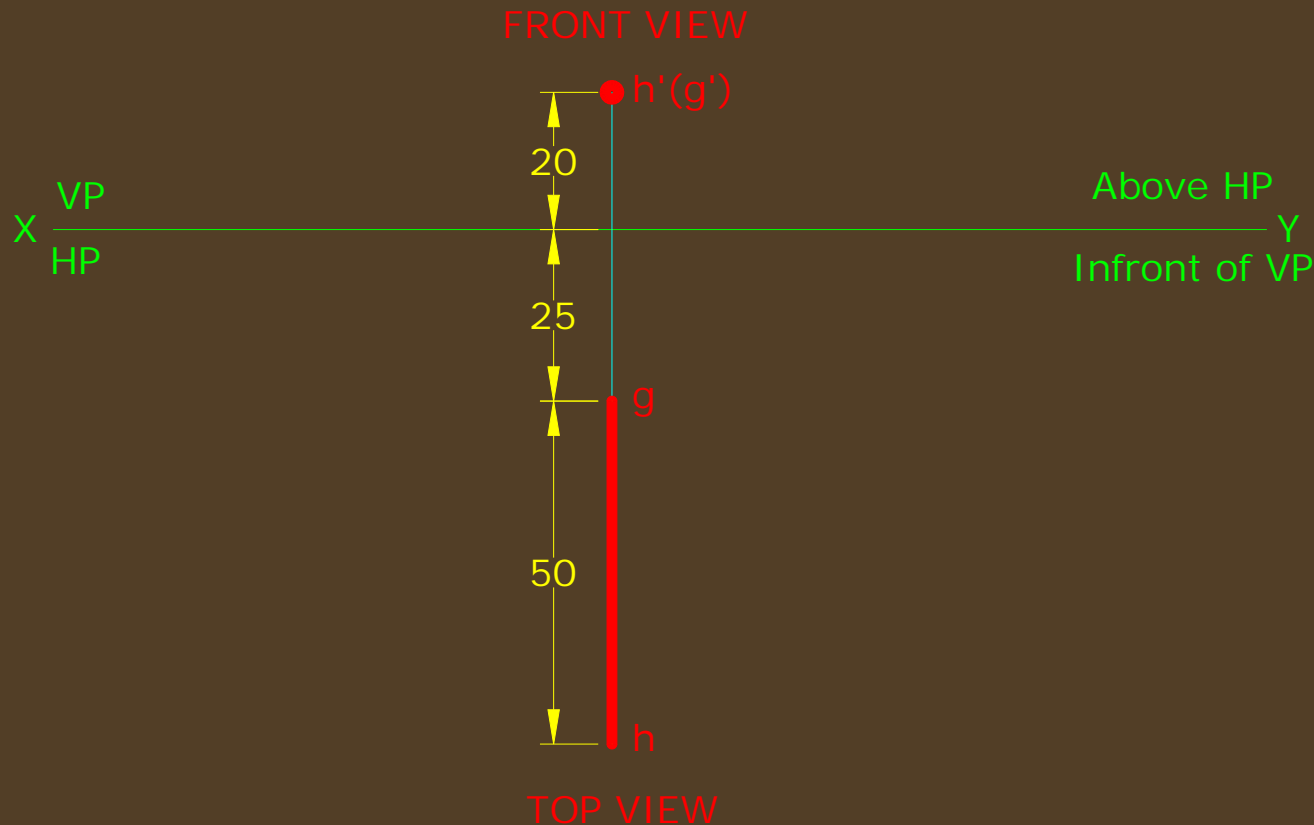
Line parallel to HP & perpendicular to VP

A line GH, 50mm long has its end G 20mm above HP and 25mm in front of VP. The line is kept perpendicular to VP and parallel to HP. Draw its projections.   J4

Line parallel to HP & perpendicular to VP

A line GH, 50mm long has its end G 20mm above HP and 25mm in front of VP. The line is kept perpendicular to VP and parallel to HP. Draw its projections.   J4

FRONT VIEW

h'(g')

20

VP

X ———————————————— Y

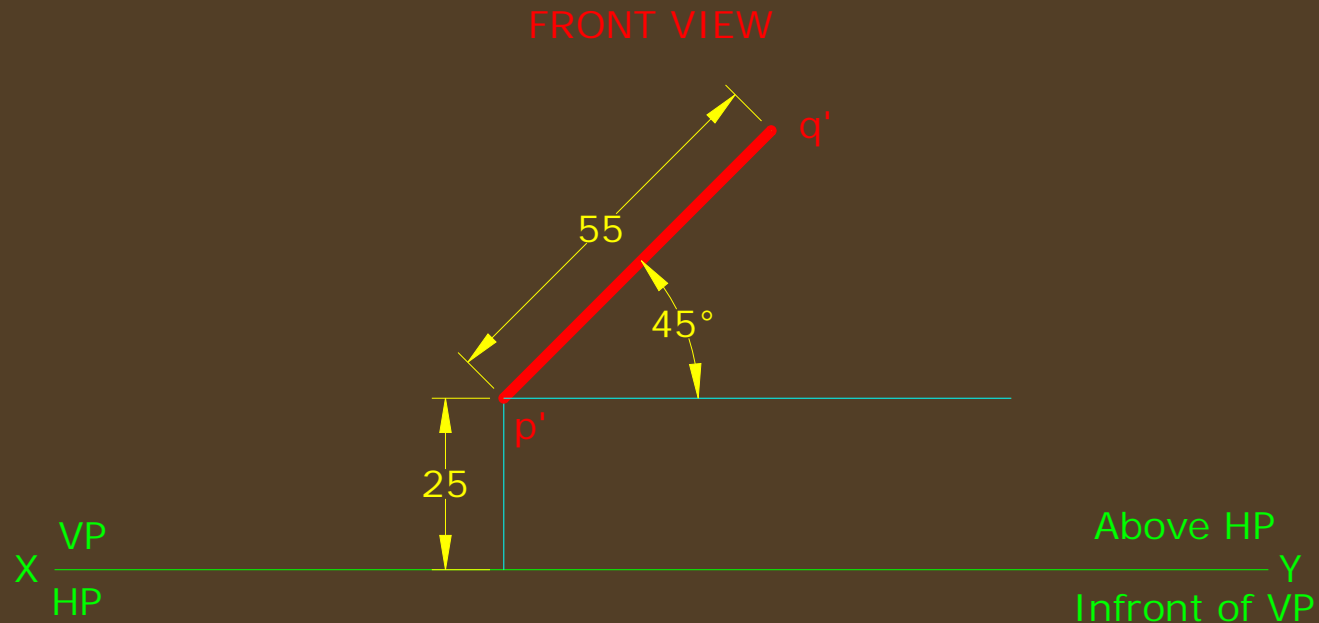HP

Above HP

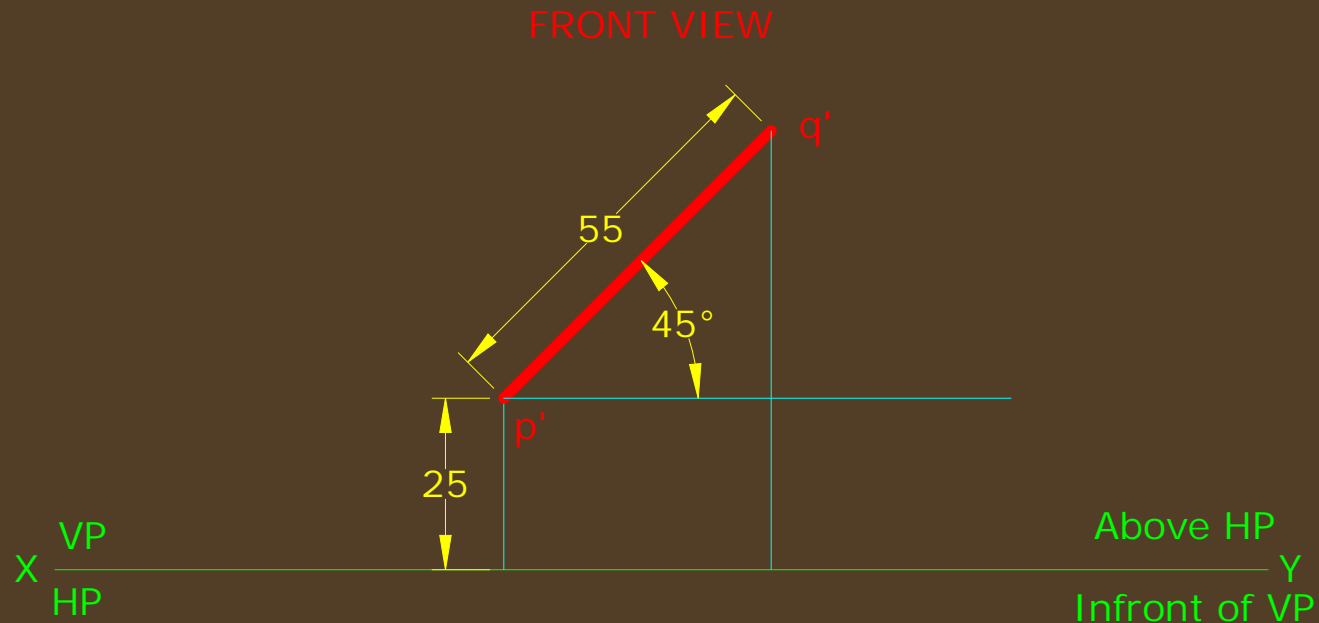Infront of VP

25

g

50

h

TOP VIEW

Line lies on VP & Inclined to HP

A line PQ 55mm long is lying on VP and inclined at 450 with the HP. The end P is 25mm above HP. Draw its projections. J5

VP

Above HP

X —————————————————————————————————— Y
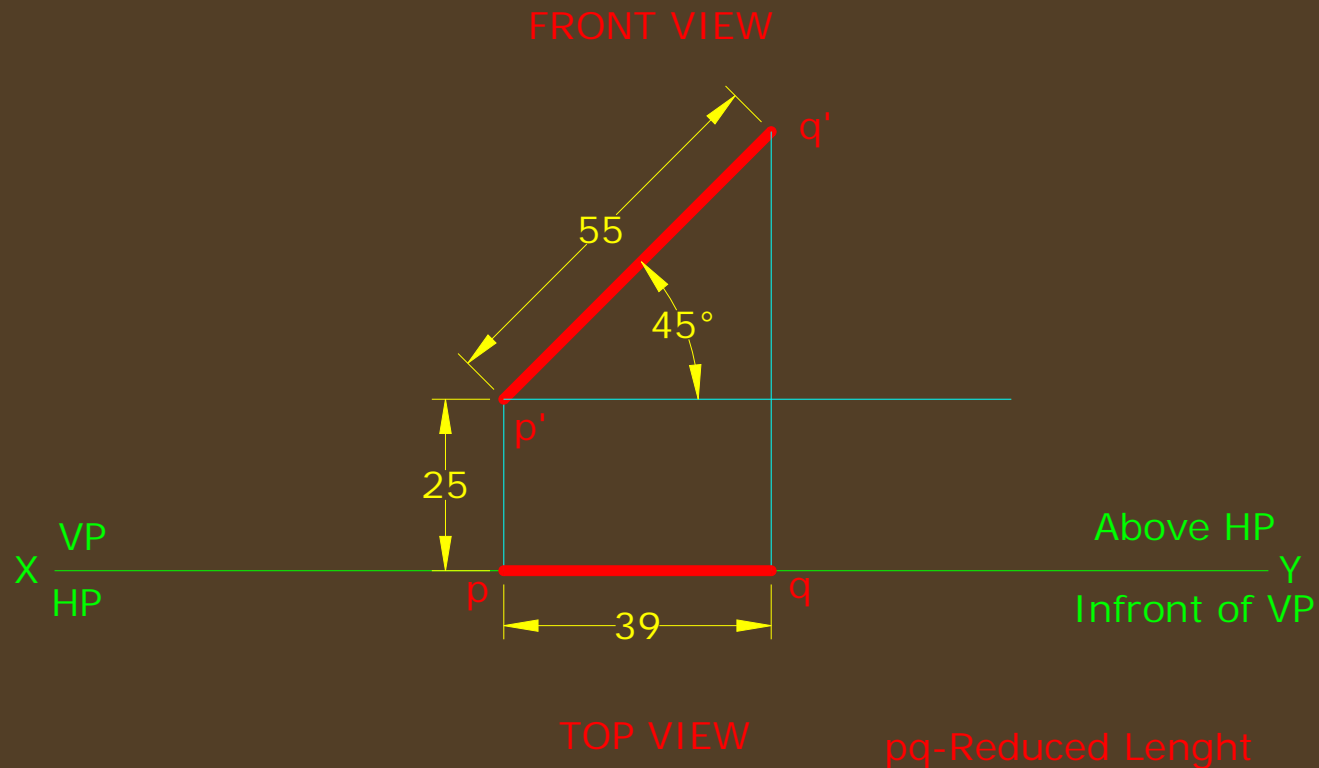
HP

Infront of VP

Line lies on VP & Inclined to HP

A line PQ 55mm long is lying on VP and inclined at 45⁰ with the HP. The end P is 25mm above HP. Draw its projections. J5

Line lies on VP & Inclined to HP

A line PQ 55mm long is lying on VP and inclined at 450 with the HP. The end P is 25mm above HP. Draw its projections. J5

FRONT VIEW

55

45°

q'

p'

25

X — VP / HP — Y

Above HP

Infront of VP

Line lies on VP & Inclined to HP

A line PQ 55mm long is lying on VP and inclined at 45⁰ with the HP. The end P is 25mm above HP. Draw its projections. J5

FRONT VIEW

q'

55

45°

p'

25

X VP / HP — Y

Above HP

Infront of VP

Line lies on VP & Inclined to HP

A line PQ 55mm long is lying on VP and inclined at 45° with the HP. The end P is 25mm above HP. Draw its projections. J5

FRONT VIEW

q'

55

45°

p'

25

VP

X ———————————————————————— Y

HP

Above HP

p   q

39

Infront of VP

TOP VIEW   pq-Reduced Lenght

Line lies on HP & Inclined to VP

A line PQ 55mm long, is lying on the HP and makes an angle of 350 with the VP. Its end P is 25mm in front of VP. Draw the projection of the line.   J6
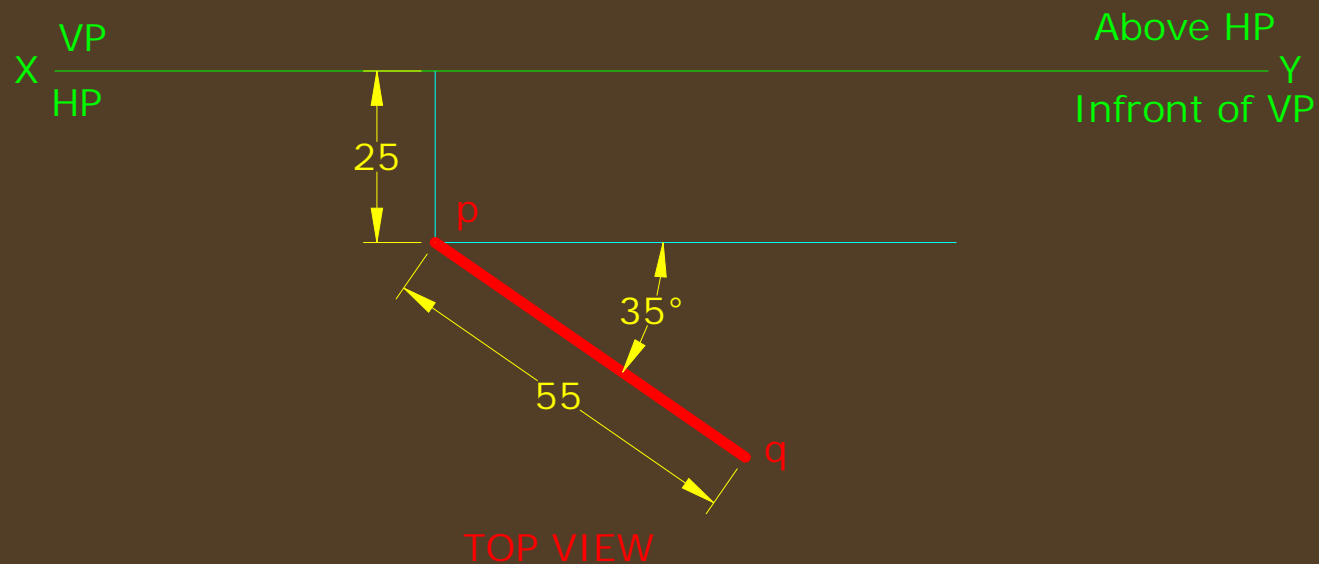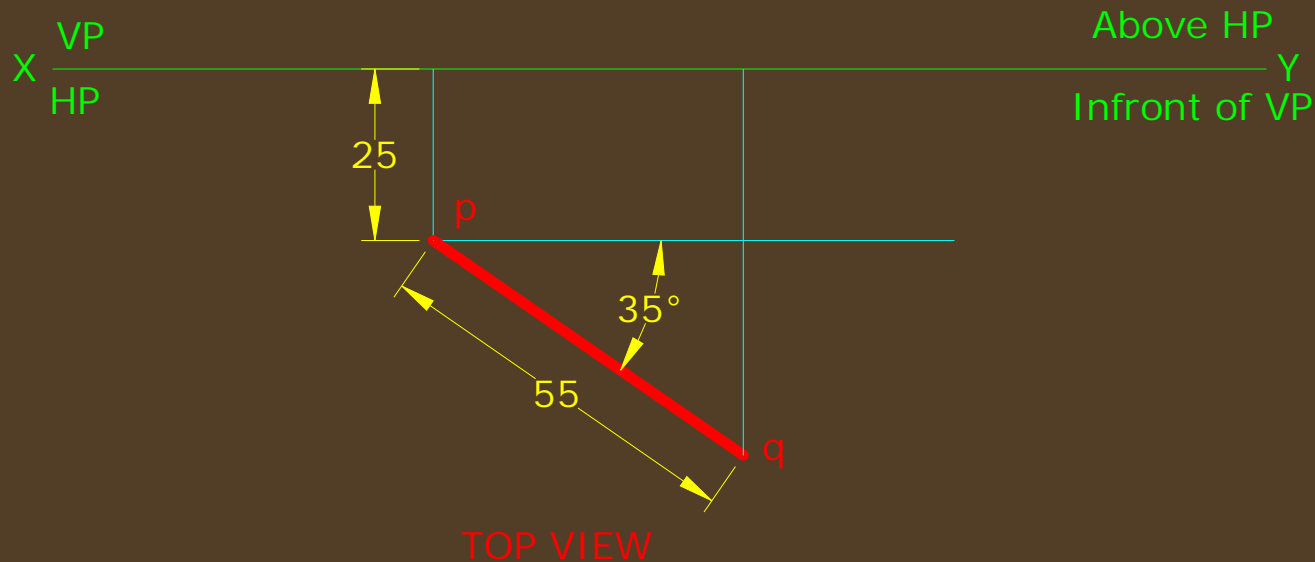
VP

Above HP

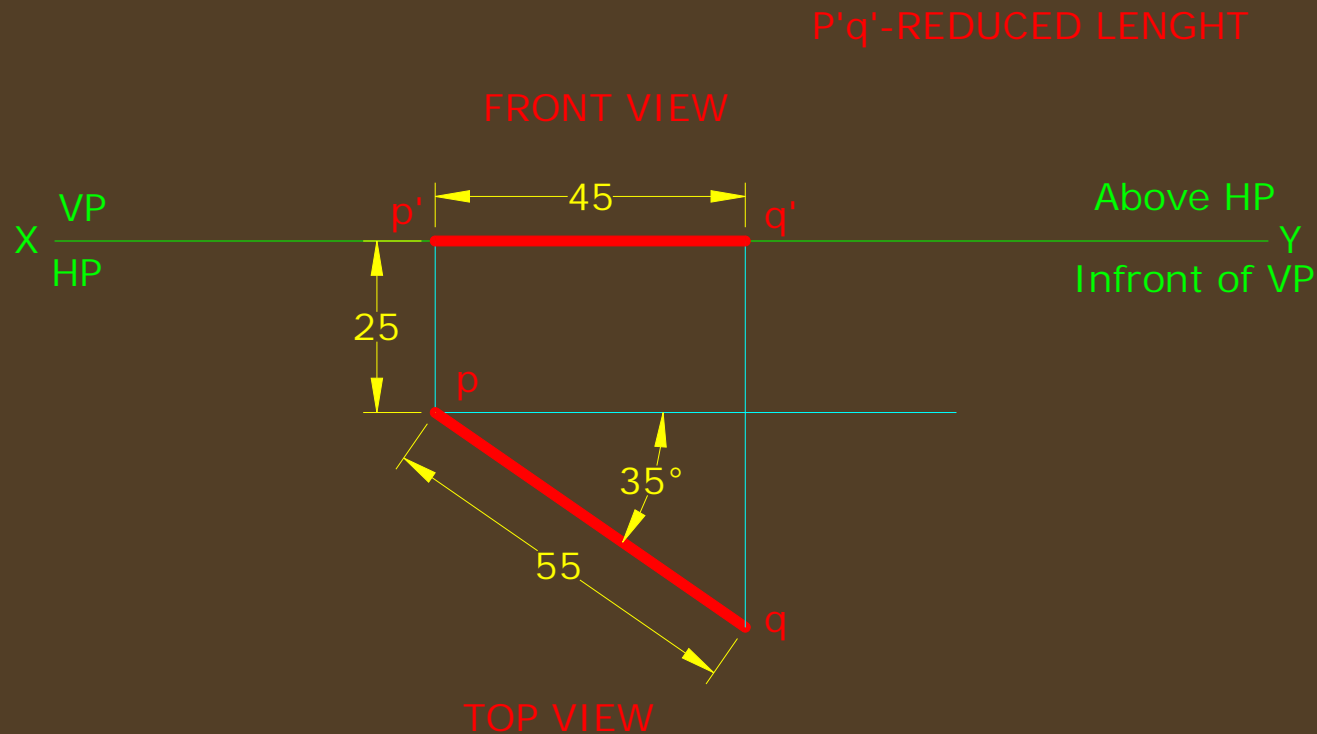X ——————————————————————————————— Y

HP

Infront of VP

Line lies on HP & Inclined to VP

A line PQ 55mm long, is lying on the HP and makes an angle of 350 with the VP. Its end P is 25mm in front of VP. Draw the projection of the line.   J6

VP

Above HP

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

HP

Infront of VP

25

p

Line lies on HP & Inclined to VP

A line PQ 55mm long, is lying on the HP and makes an angle of 350 with the VP. Its end P is 25mm in front of VP. Draw the projection of the line.   J6

Line lies on HP & Inclined to VP

A line PQ 55mm long, is lying on the HP and makes an angle of 350 with the VP. Its end P is 25mm in front of VP. Draw the projection of the line.   J6
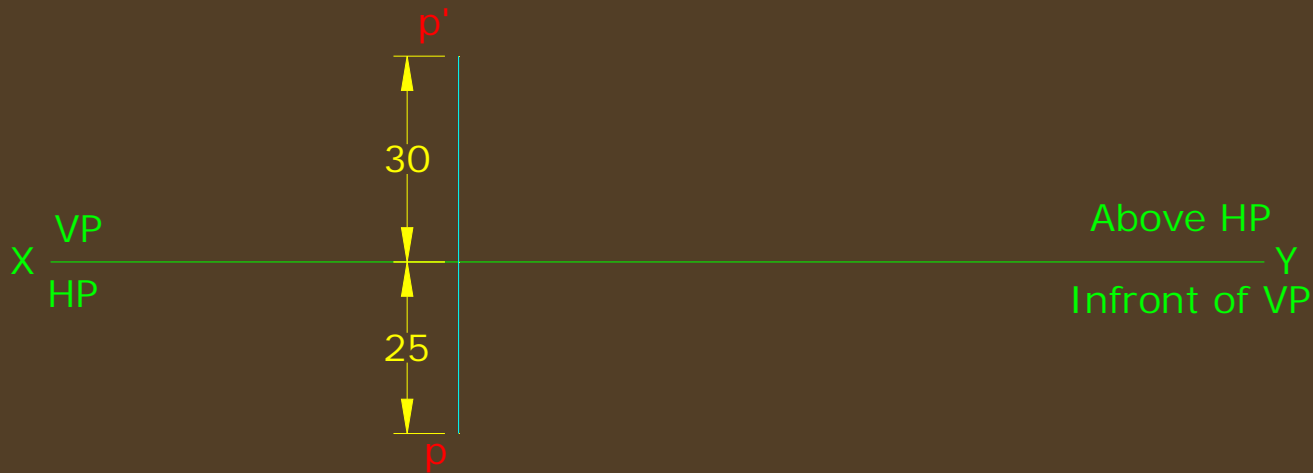
VP

Above HP

X $\frac{\text{VP}}{\text{HP}}$ Y

Infront of VP

25

p

35°

55

q

TOP VIEW

Line lies on HP & Inclined to VP

A line PQ 55mm long, is lying on the HP and makes an angle of 350 with the VP. Its end P is 25mm in front of VP. Draw the projection of the line.   J6

P'q'-REDUCED LENGHT

FRONT VIEW

VP

X —————————————————————————— Y
HP

p' |←——— 45 ———→| q'

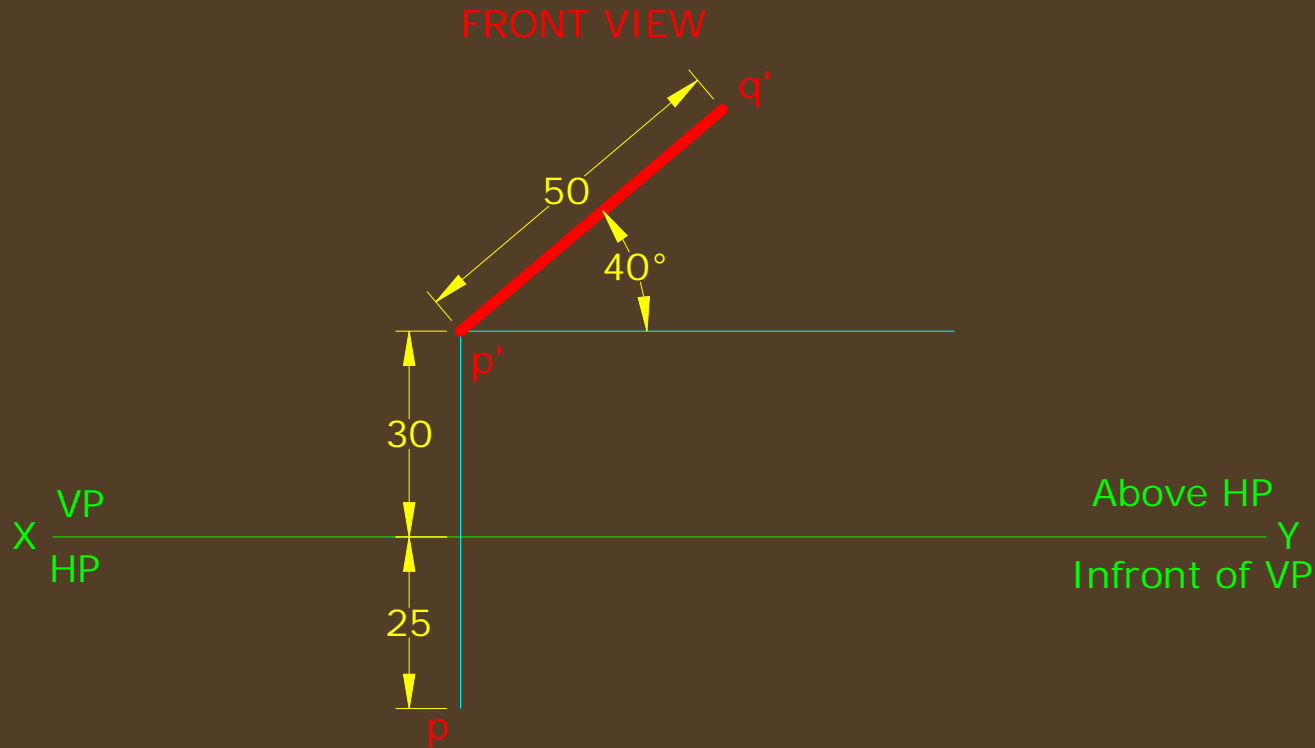Above HP

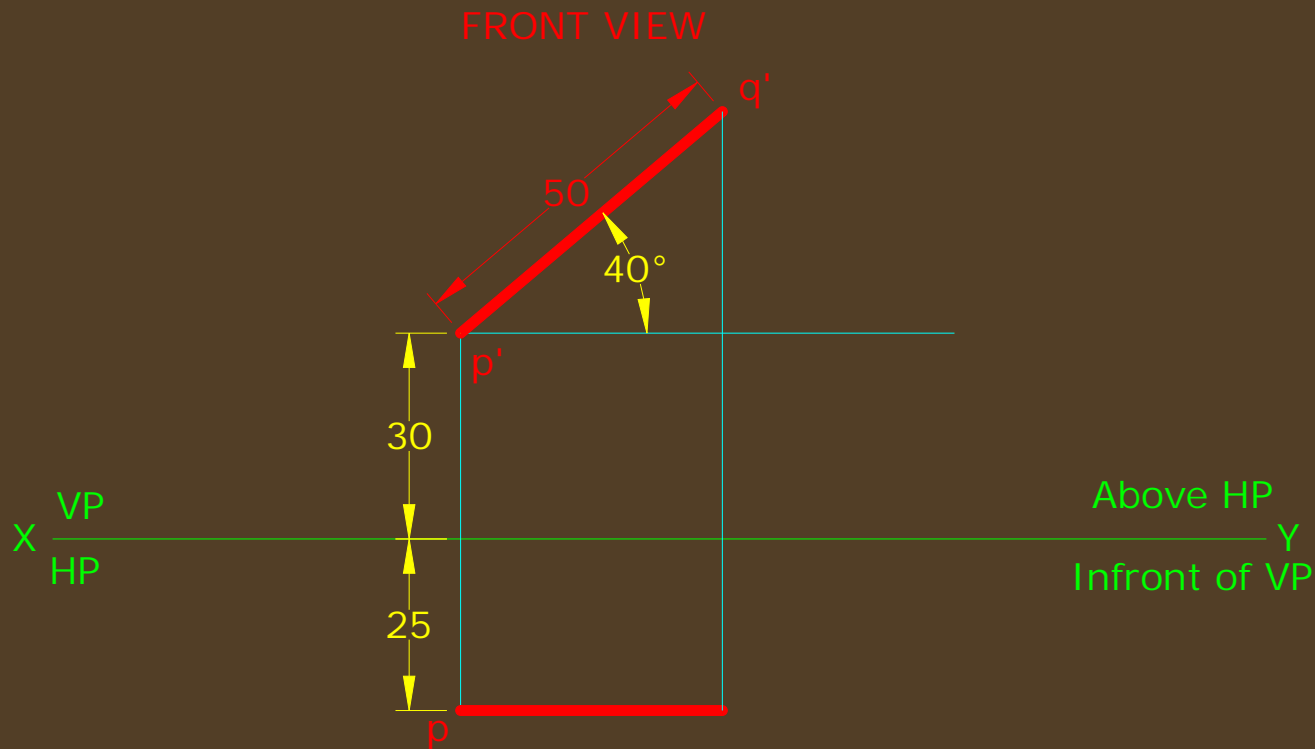Infront of VP

25

p

35°

55

q

TOP VIEW

Line parallel to VP & Inclined to HP

A line PQ 50mm long has its end P 30mm above HP and 25mm in front of VP. The line is kept inclined at 400 to HP and parallel to VP. Draw its projections.   J7

VP

Above HP

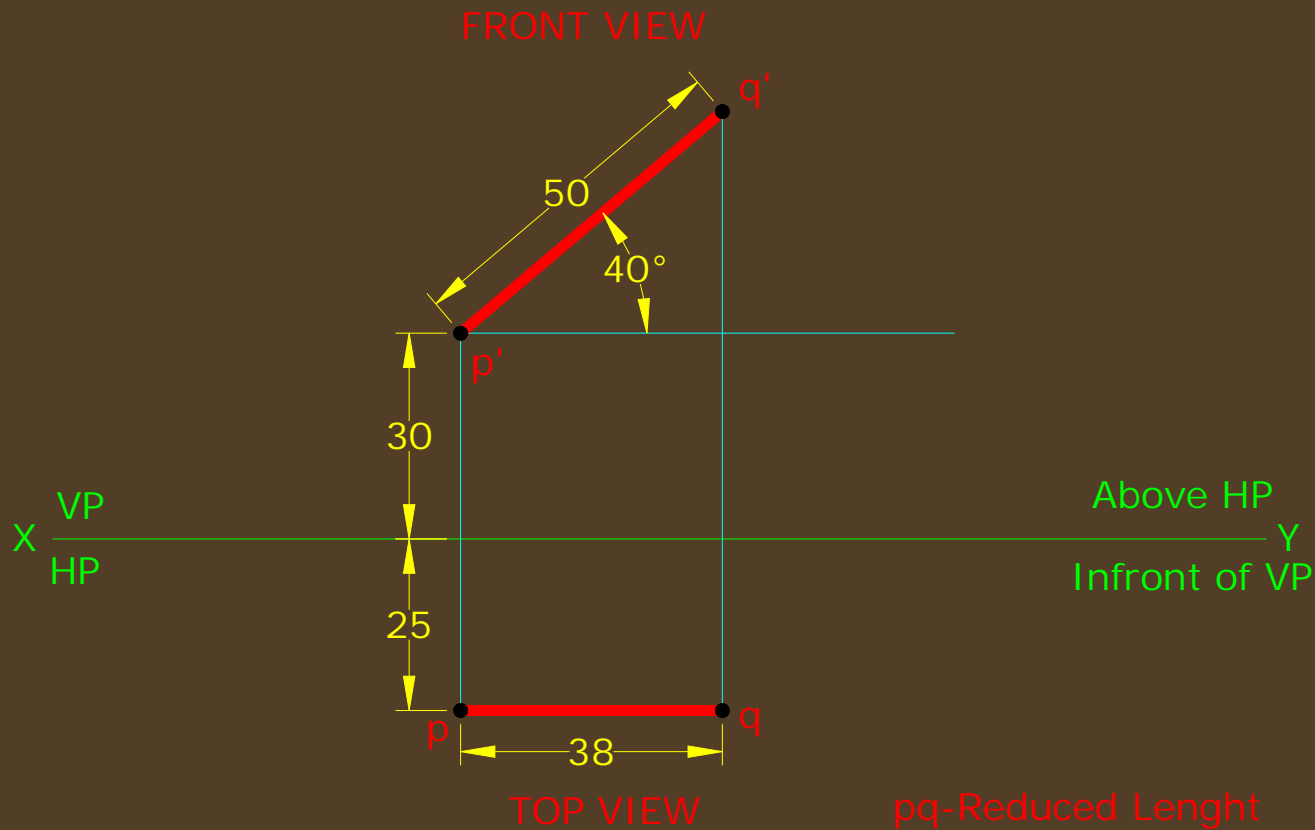X ——————————————————————— Y

HP

Infront of VP

Line parallel to VP & Inclined to HP

A line PQ 50mm long has its end P 30mm above HP and 25mm in front of VP. The line is kept inclined at 400 to HP and parallel to VP. Draw its projections.   J7

Line parallel to VP & Inclined to HP

A line PQ 50mm long has its end P 30mm above HP and 25mm in front of VP. The line is kept inclined at 400 to HP and parallel to VP. Draw its projections.   J7

Line parallel to VP & Inclined to HP

A line PQ 50mm long has its end P 30mm above HP and 25mm in front of VP. The line is kept inclined at 400 to HP and parallel to VP. Draw its projections.   J7
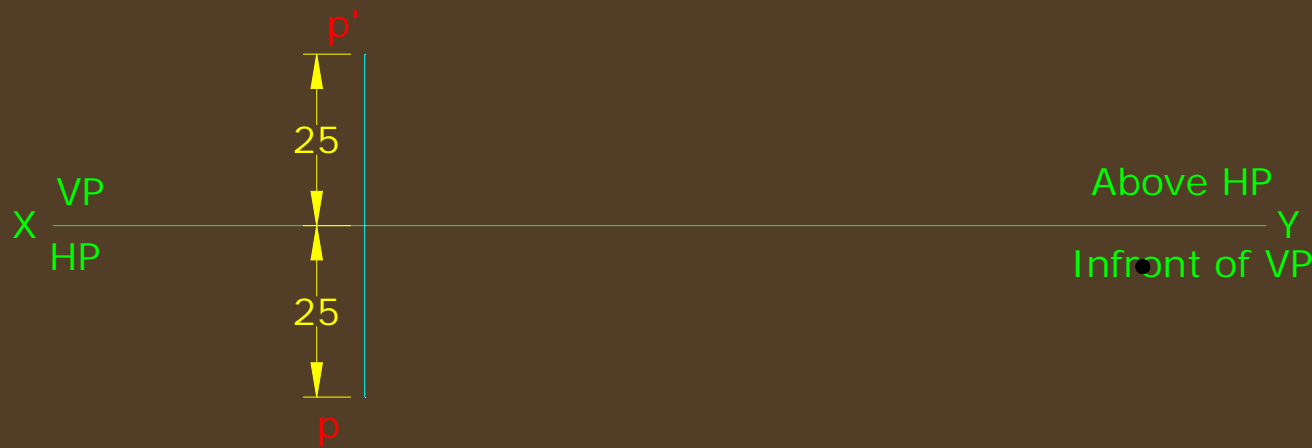
FRONT VIEW

q'

50

40°

p'

30

VP

HP

X ————————————————————————— Y

Above HP

Infront of VP

25

p

Line parallel to VP & Inclined to HP

A line PQ 50mm long has its end P 30mm above HP and 25mm in front of VP. The line is kept inclined at 400 to HP and parallel to VP. Draw its projections.   J7

FRONT VIEW

q'

50

40°

p'

30

VP

X ——— Y

HP

25

Above HP

Infront of VP

p   q

38

TOP VIEW

pq-Reduced Lenght

Line parallel to HP & Inclined to VP

A line PQ 50mm long has its end P 25mm above HP and 25mm in front of VP. The line is inclined at 450 to VP and parallel to HP. Draw its projections.   J8
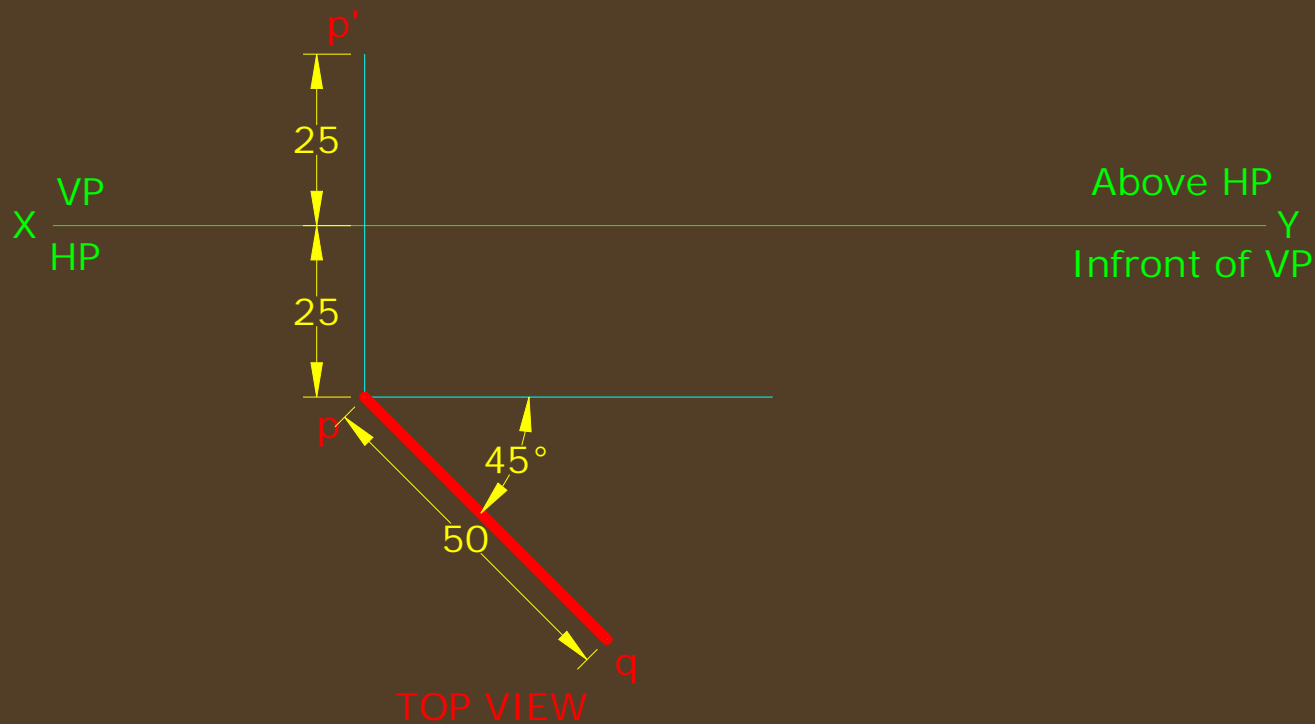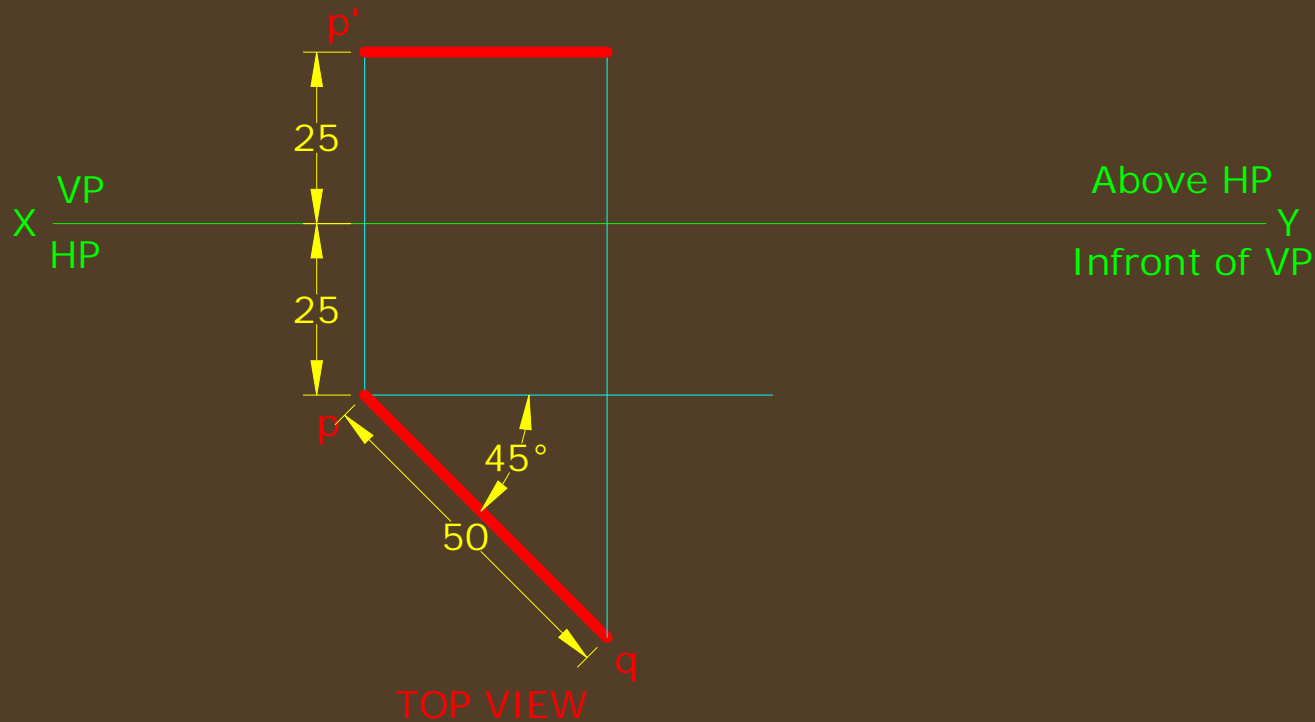
VP

X ———————————————————————————————— Y

HP

Above HP

Infront of VP

Line parallel to HP & Inclined to VP

A line PQ 50mm long has its end P 25mm above HP and 25mm in front of VP. The line is inclined at 450 to VP and parallel to HP. Draw its projections.   J8
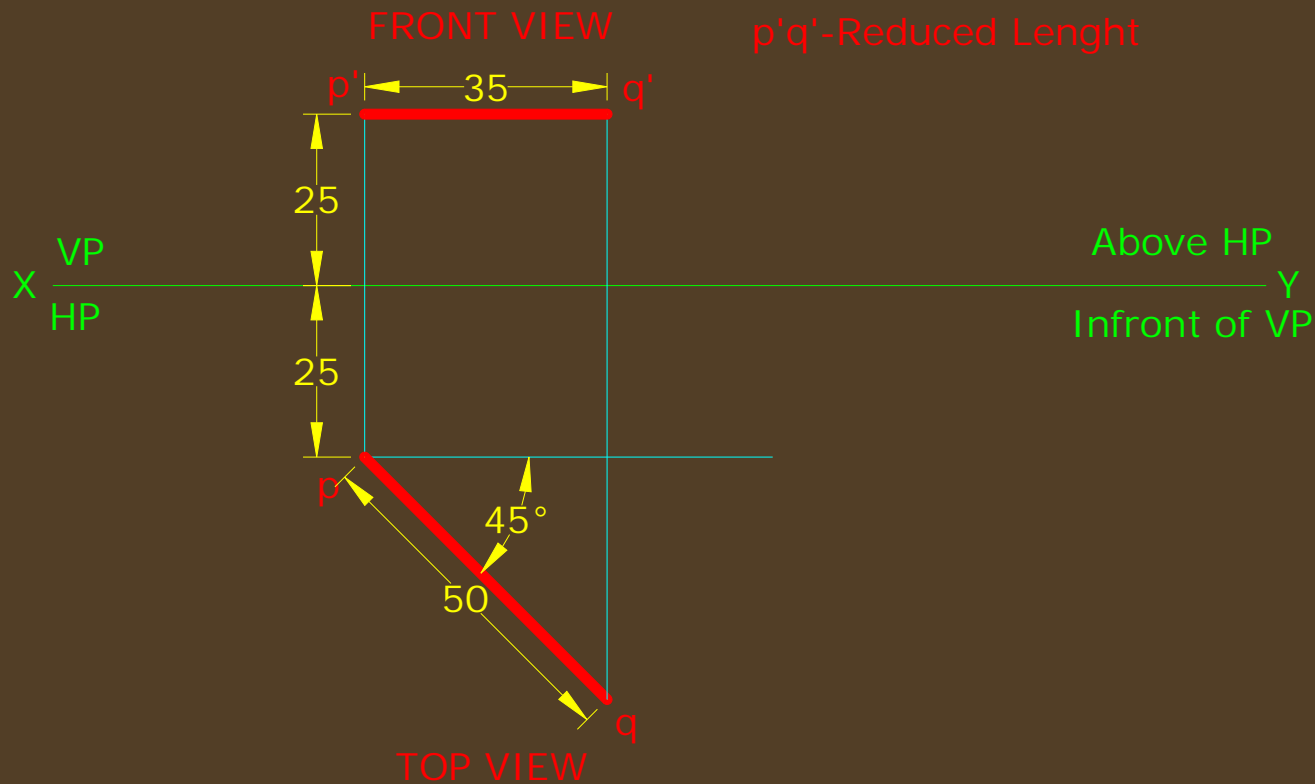
p'

25

VP

Above HP

X ———————————————————————————— Y

HP

Infront of VP

25

p

Line parallel to HP & Inclined to VP

A line PQ 50mm long has its end P 25mm above HP and 25mm in front of VP. The line is inclined at 450 to VP and parallel to HP. Draw its projections.   J8

Line parallel to HP & Inclined to VP

A line PQ 50mm long has its end P 25mm above HP and 25mm in front of VP. The line is inclined at 450 to VP and parallel to HP. Draw its projections.   J8

Line parallel to HP & Inclined to VP

A line PQ 50mm long has its end P 25mm above HP and 25mm in front of VP. The line is inclined at 45° to VP and parallel to HP. Draw its projections.   J8

FRONT VIEW   p'q'-Reduced Lenght

p' |← 35 →| q'

25

VP   Above HP
X ——————————————————————————————— Y
HP   Infront of VP

25

p

45°

50

q

TOP VIEW

Line parallel to VP & Inclined to HP

A line PQ 65mm long has its end P, 20mm above HP and 30mm in front of VP. Its top view has a length of 45mm. Draw its projections and find the inclination of the line with HP.
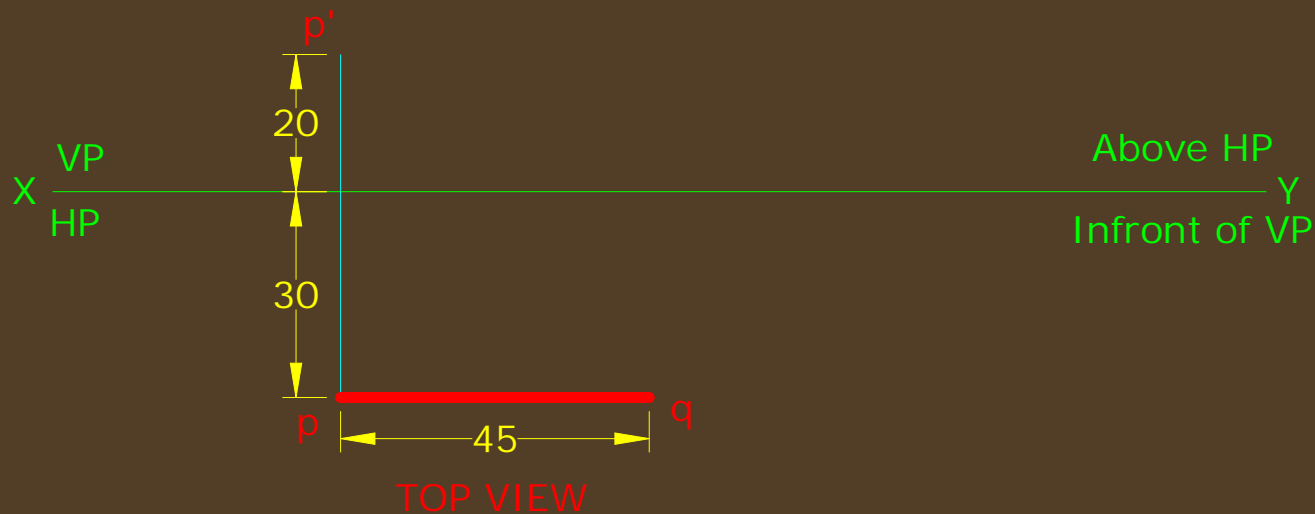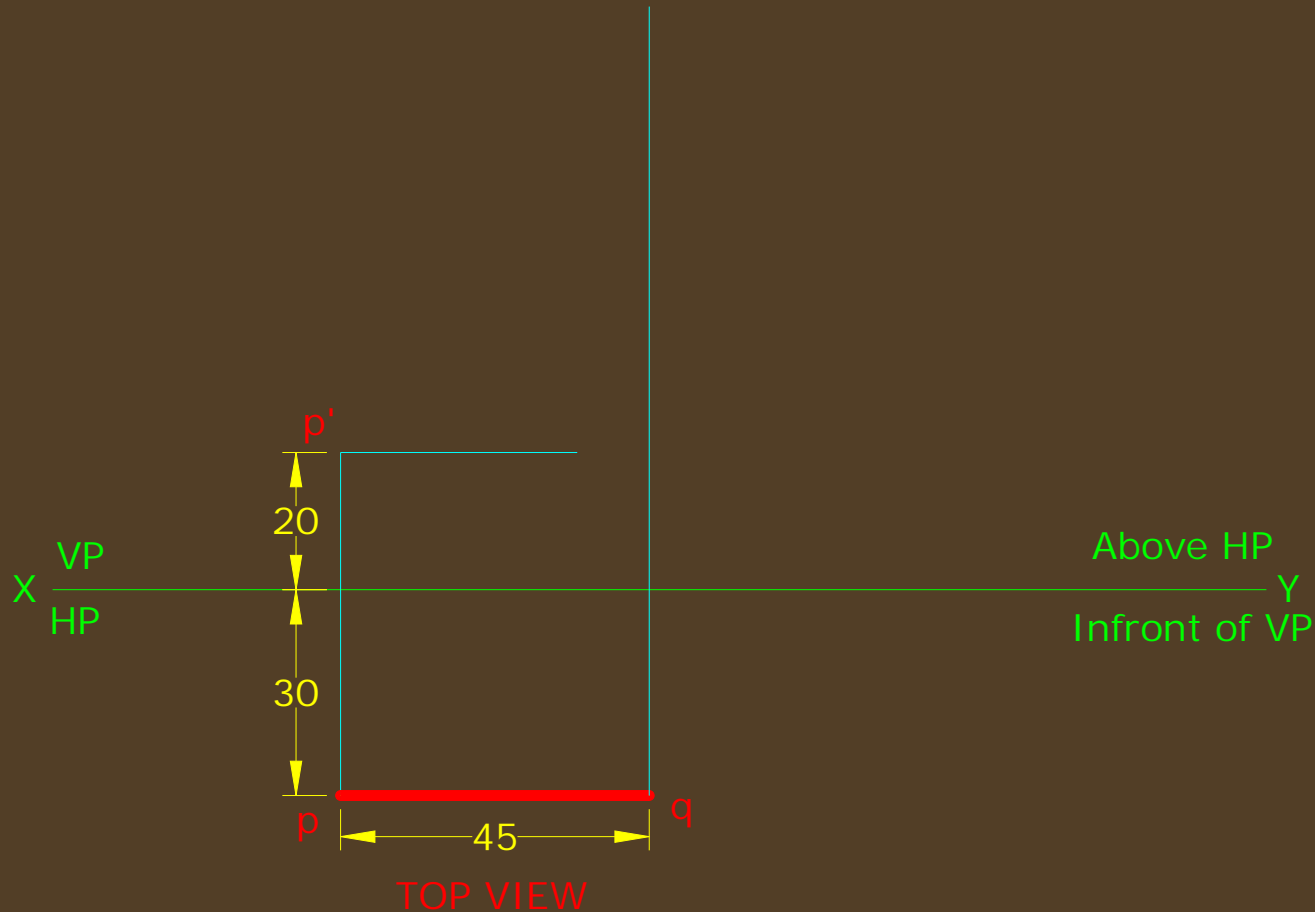J9

VP

Above HP

X ———————————————————————————————— Y

HP

Infront of VP

Line parallel to VP & Inclined to HP

A line PQ 65mm long has its end P, 20mm above HP and 30mm in front of VP. Its top view has a length of 45mm. Draw its projections and find the inclination of the line with HP. J9
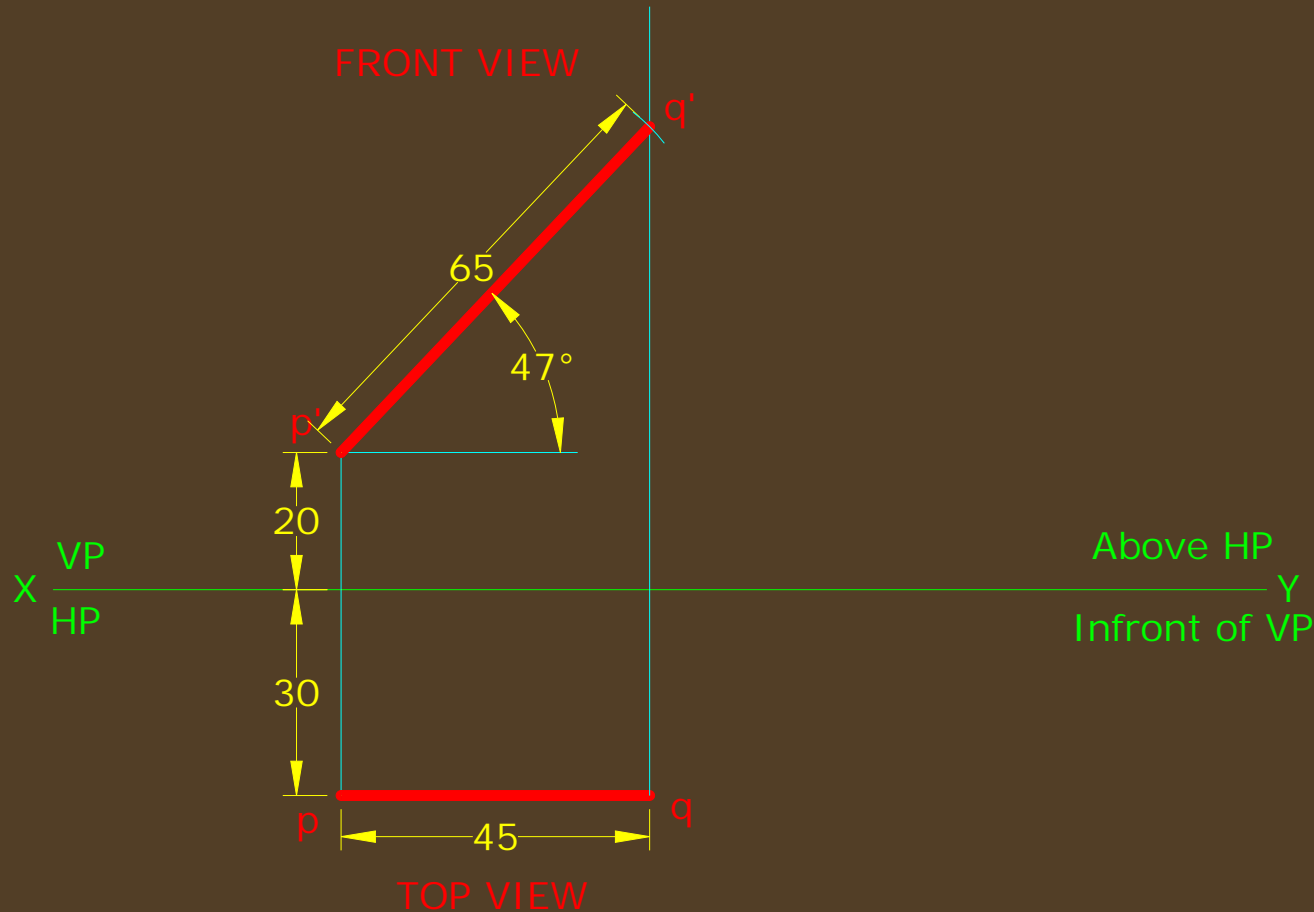
p'

20

VP

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

HP

Above HP

Infront of VP

30

p

Line parallel to VP & Inclined to HP

A line PQ 65mm long has its end P, 20mm above HP and 30mm in front of VP. Its top view has a length of 45mm. Draw its projections and find the inclination of the line with HP.
J9

p'

20

VP

X ——— Y

HP

Above HP

Infront of VP

30

p

45

q

TOP VIEW

Line parallel to VP & Inclined to HP

A line PQ 65mm long has its end P, 20mm above HP and 30mm in front of VP. Its top view has a length of 45mm. Draw its projections and find the inclination of the line with HP.
J9

p'

20

VP

X ——— Y

HP

Above HP

Infront of VP

30

p

45

q

TOP VIEW

Line parallel to VP & Inclined to HP

A line PQ 65mm long has its end P, 20mm above HP and 30mm in front of VP. Its top view has a length of 45mm. Draw its projections and find the inclination of the line with HP. J9

Line parallel to HP & Inclined to VP

A line PQ 60mm long has its end P 30mm above HP and 15mm in front of VP. Its front view has a length of 45mm. Draw the projections and find the inclination of the line with VP.   J10
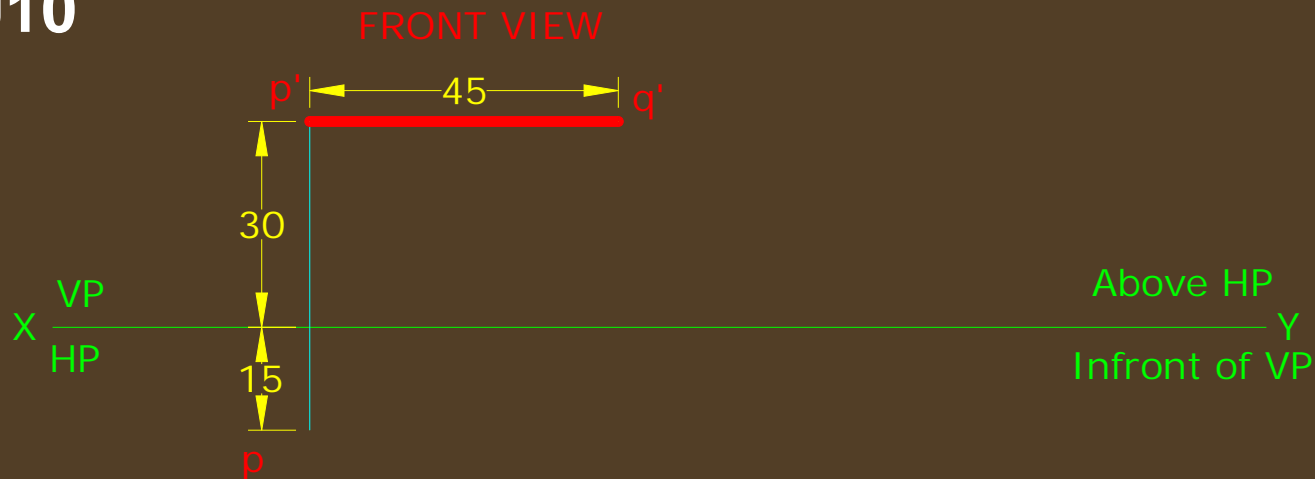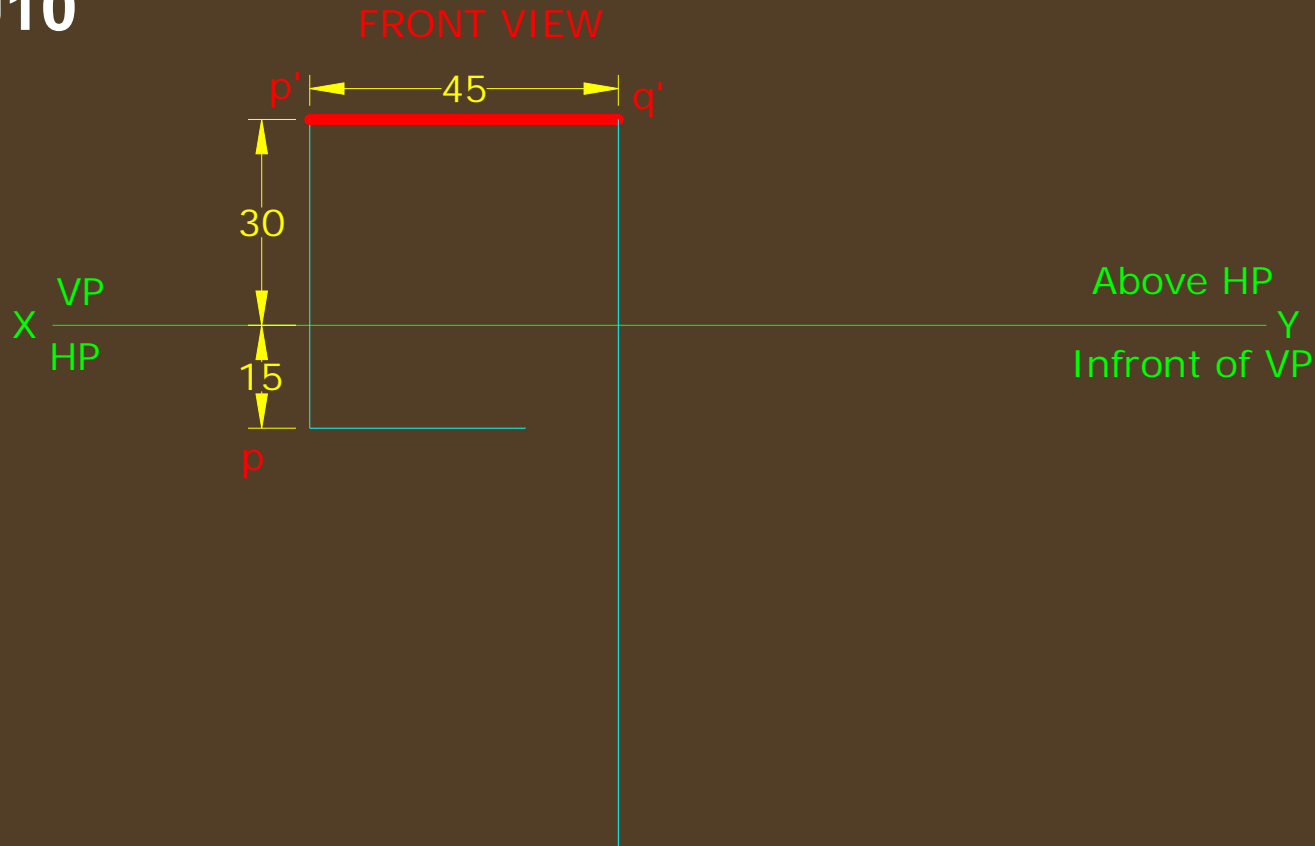
VP

Above HP

X ——————————————————————————— Y
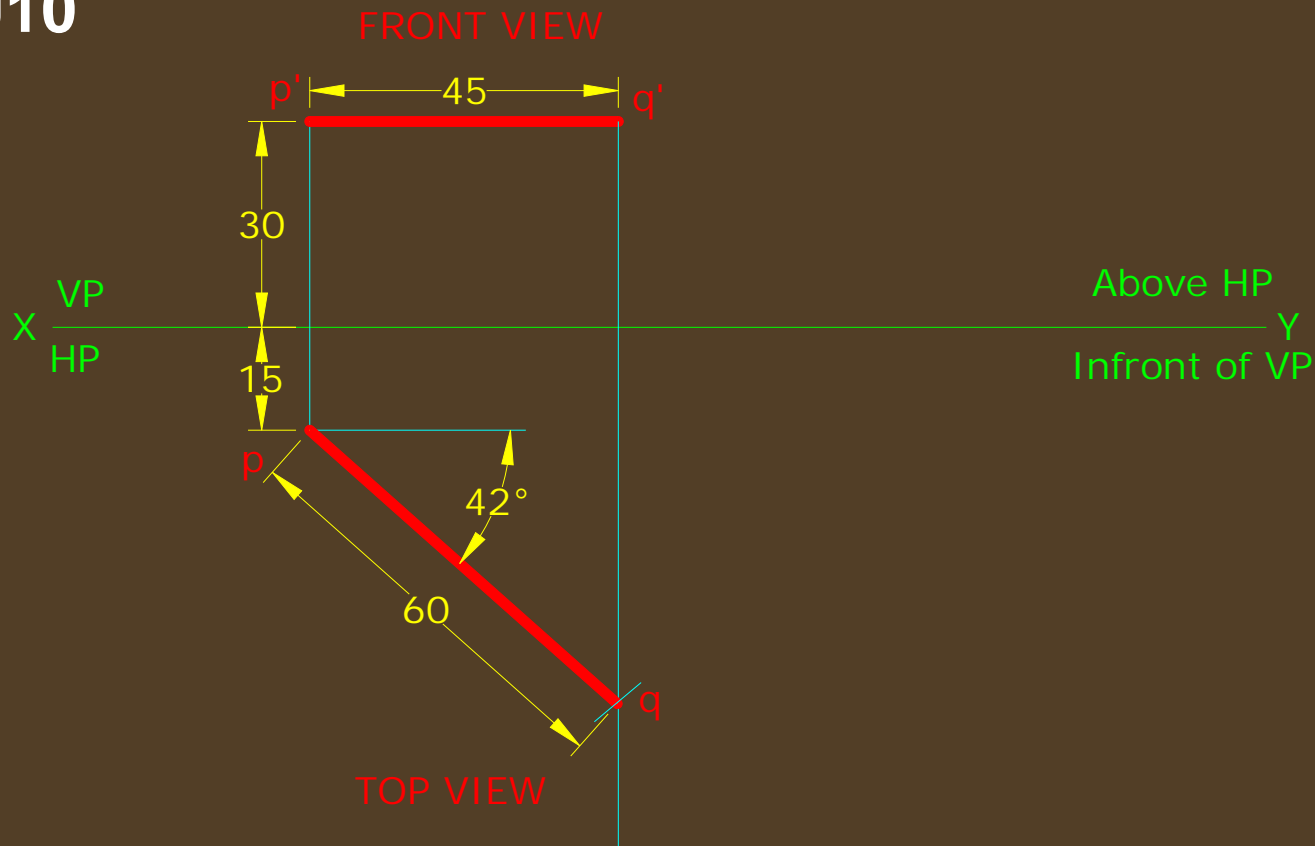
HP

Infront of VP

Line parallel to HP & Inclined to VP

A line PQ 60mm long has its end P 30mm above HP and 15mm in front of VP. Its front view has a length of 45mm. Draw the projections and find the inclination of the line with VP.   J10

p'

30

VP

X

HP

15

p

Above HP

Y

Infront of VP

Line parallel to HP & Inclined to VP

A line PQ 60mm long has its end P 30mm above HP and 15mm in front of VP. Its front view has a length of 45mm. Draw the projections and find the inclination of the line with VP.   J10
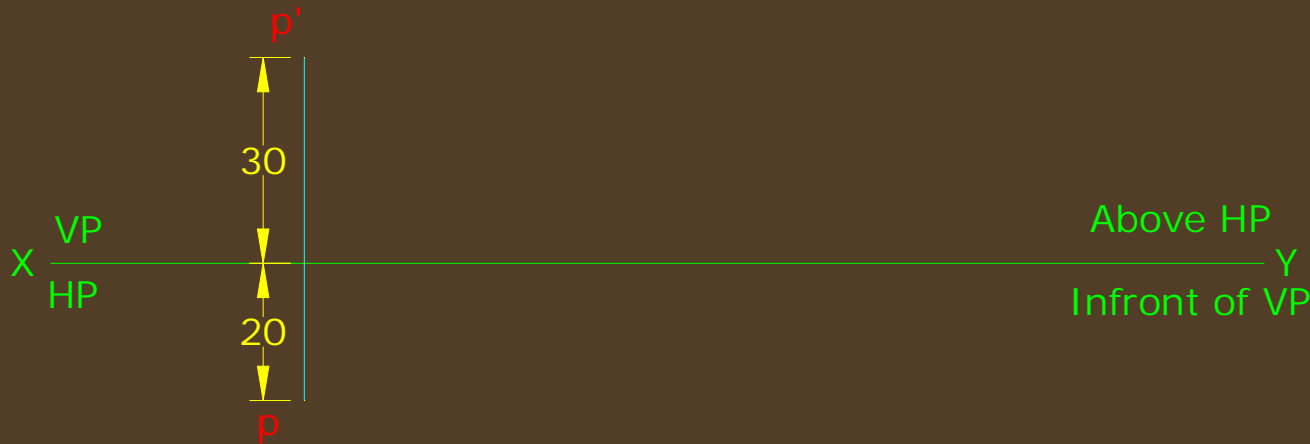
FRONT VIEW

p' |←——45——→| q'

30

VP

X ——————————————————————————————— Y

HP

15

p

Above HP

Infront of VP

Line parallel to HP & Inclined to VP

A line PQ 60mm long has its end P 30mm above HP and 15mm in front of VP. Its front view has a length of 45mm. Draw the projections and find the inclination of the line with VP.   J10

FRONT VIEW

p' |←——45——→| q'

30

VP

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

HP

15

p

Above HP

Infront of VP

Line parallel to HP & Inclined to VP

A line PQ 60mm long has its end P 30mm above HP and 15mm in front of VP. Its front view has a length of 45mm. Draw the projections and find the inclination of the line with VP.   J10

FRONT VIEW

p' |←——45——→| q'

30

VP

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

HP

15

Above HP
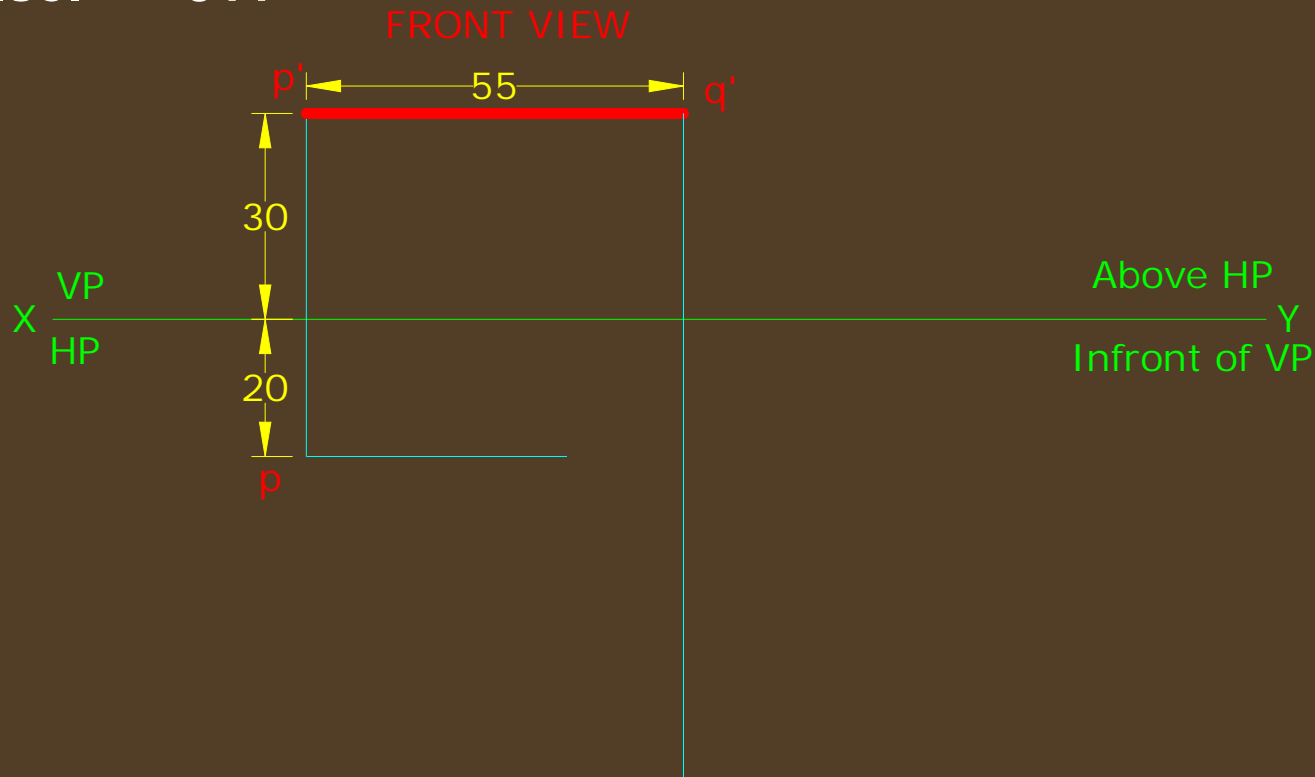
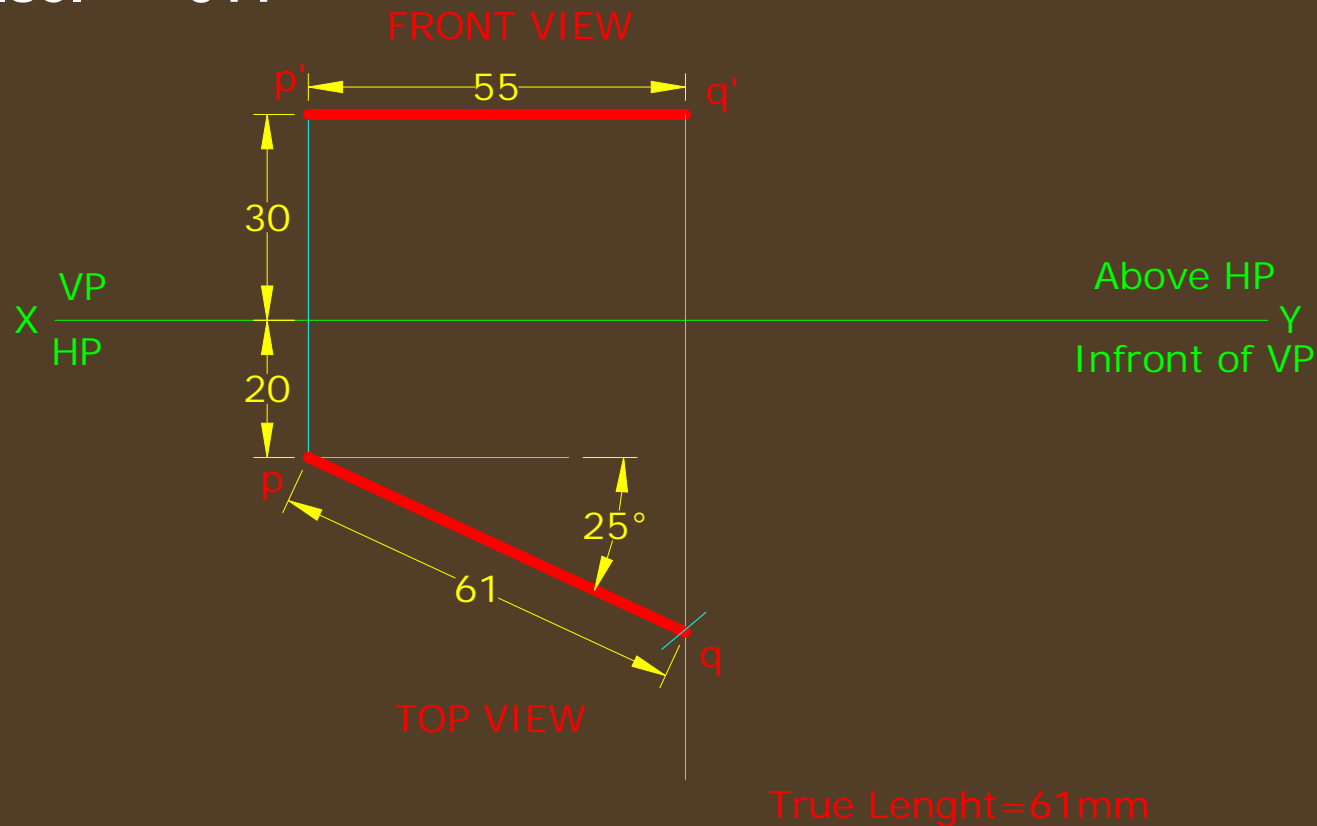Infront of VP

p

42°

60

q

TOP VIEW

Line parallel to HP & Inclined to VP

A line PQ has its end P 30mm above HP and 20mm in front of VP. It is inclined at 250 to VP and parallel to HP. Draw its projections, if the distance between the end projectors to be 55mm. Find the true length of the line also.   J11

X $\overline{\hspace{1cm}}$ VP / HP Y

VP

Above HP

Infront of VP

HP

Line parallel to HP & Inclined to VP

A line PQ has its end P 30mm above HP and 20mm in front of VP. It is inclined at 250 to VP and parallel to HP. Draw its projections, if the distance between the end projectors to be 55mm. Find the true length of the line also.   J11

Line parallel to HP & Inclined to VP

A line PQ has its end P 30mm above HP and 20mm infront of VP. It is inclined at 250 to VP and parallel to HP. Draw its projections, if the distance between the end projectors to be 55mm. Find the true length of the line also.   J11

FRONT VIEW

p' |← 55 →| q'

30

VP

X ————————————————————————————————— Y

HP

Above HP

Infront of VP

20

p

Line parallel to HP & Inclined to VP

A line PQ has its end P 30mm above HP and 20mm in front of VP. It is inclined at 250 to VP and parallel to HP. Draw its projections, if the distance between the end projectors to be 55mm. Find the true length of the line also.   J11

FRONT VIEW

p' |←——— 55 ———→| q'

30

VP

X ———————————————————————————————— Y

HP

Above HP

Infront of VP

20

p

Line parallel to HP & Inclined to VP

A line PQ has its end P 30mm above HP and 20mm in front of VP. It is inclined at 250 to VP and parallel to HP. Draw its projections, if the distance between the end projectors to be 55mm. Find the true length of the line also.   J11

FRONT VIEW

p' |←——— 55 ———→| q'

30

VP
X ——————————————————————————————————————— Y
HP

20

Above HP

Infront of VP

p

25°

61

q

TOP VIEW

True Lenght=61mm

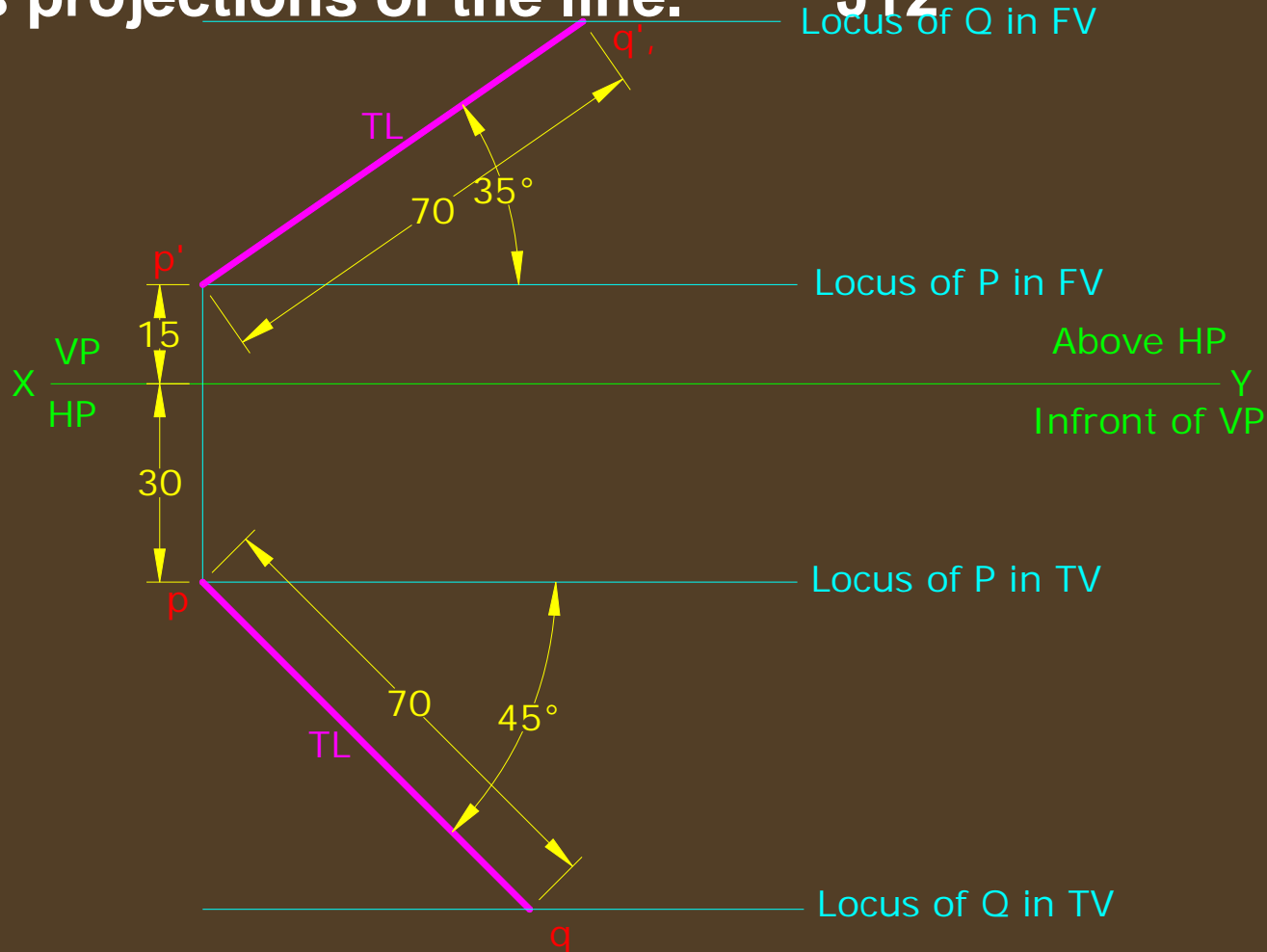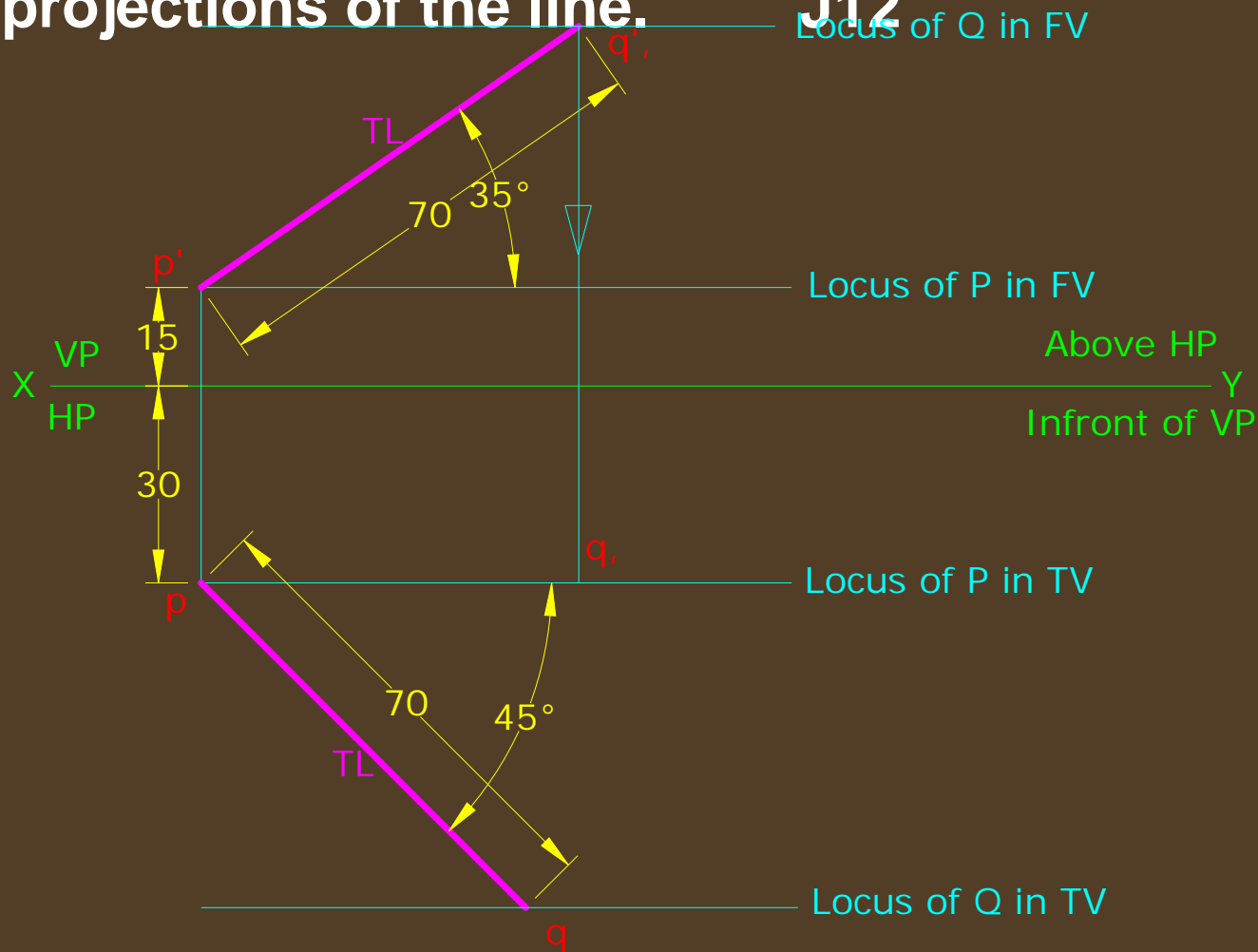# Line Inclined to both HP & VP-Rotating line method

A line 70mm long has one end 15mm above HP and 30mm in front of VP. The line is inclined at 35^0 to HP and 45^0 to VP. Draw its projections of the line.   J12

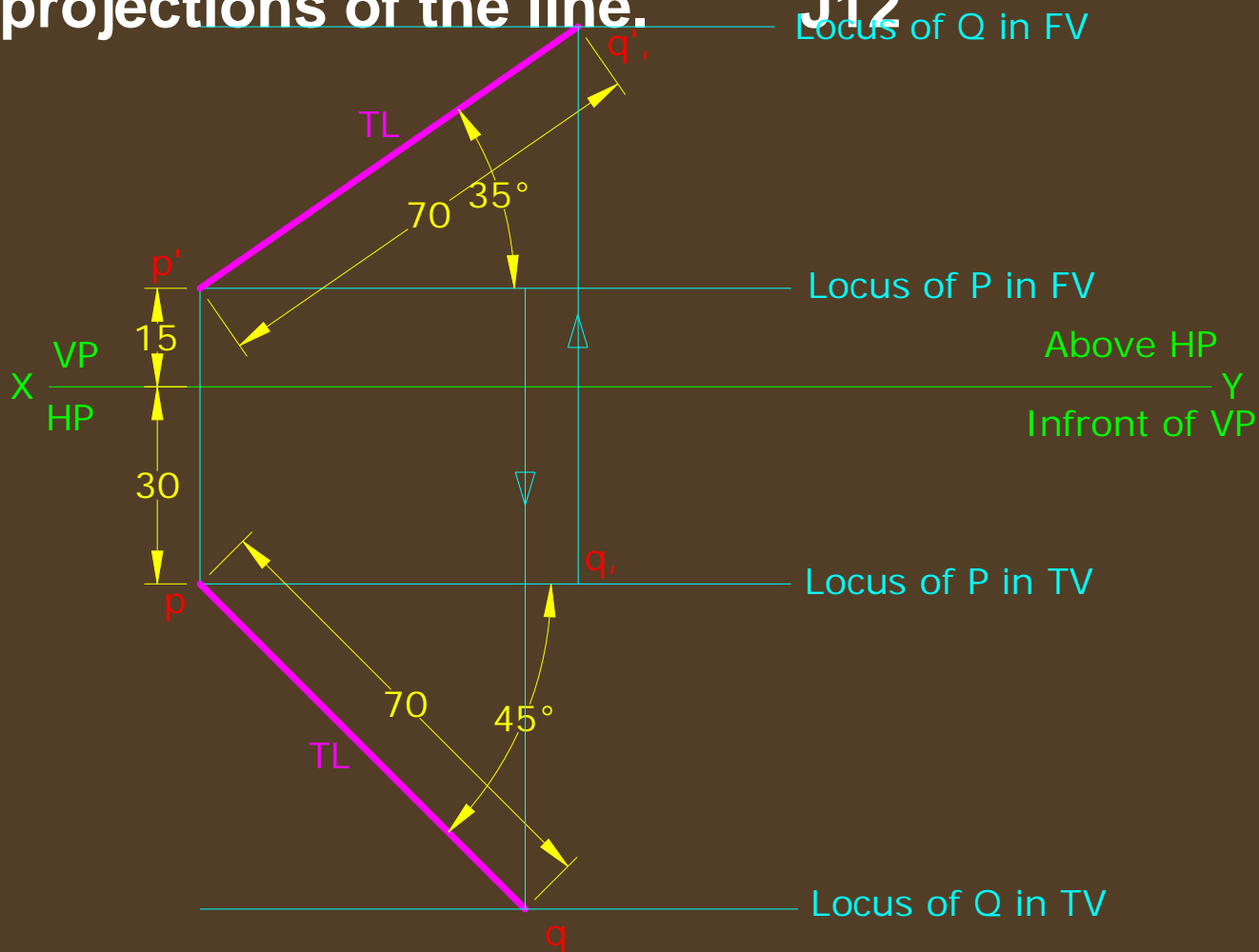X ———————————————————————————————— Y
VP

HP

Above HP

Infront of VP

Line Inclined to both HP & VP-Rotating line method

A line 70mm long has one end 15mm above HP and 30mm in front of VP. The line is inclined at 35^0 to HP and 45^0 to VP. Draw its projections of the line.   J12

p'

VP   15   Above HP
X _____ Y
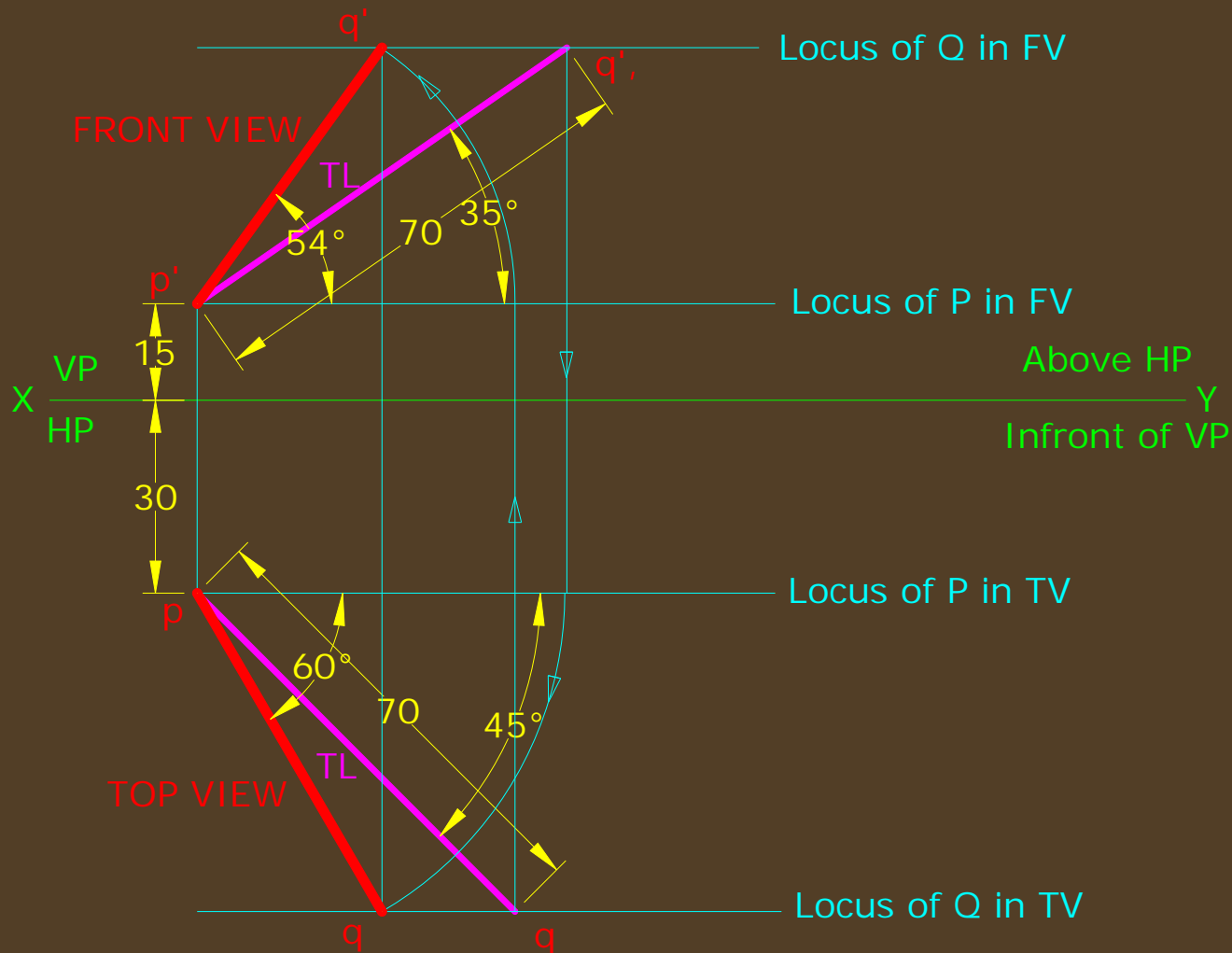HP   Infront of VP

30

p

Line Inclined to both HP & VP-Rotating line method

A line 70mm long has one end 15mm above HP and 30mm in front of VP. The line is inclined at 35^0 to HP and 45^0 to VP. Draw its projections of the line.   J12

Line Inclined to both HP & VP-Rotating line method

A line 70mm long has one end 15mm above HP and 30mm in front of VP. The line is inclined at 35^0 to HP and 45^0 to VP. Draw its projections of the line.   **J12**

Line Inclined to both HP & VP-Rotating line method

A line 70mm long has one end 15mm above HP and 30mm in front of VP. The line is inclined at 35⁰ to HP and 45⁰ to VP. Draw its projections of the line.   J12

Locus of Q in FV

q',

TL

70 35°

p'

Locus of P in FV

VP   15

Above HP

X ——————————— Y

HP

Infront of VP

30

Locus of P in TV

p

70 45°

TL

Locus of Q in TV

q

Line Inclined to both HP & VP-Rotating line method

A line 70mm long has one end 15mm above HP and 30mm in front of VP. The line is inclined at 35^0 to HP and 45^0 to VP. Draw its projections of the line. J12

Locus of Q in FV

TL

70 35°

q'

p'

Locus of P in FV

Above HP

VP 15

X ——————————————————————————— Y

HP

Infront of VP

30

q,

Locus of P in TV

p

70 45°

TL

Locus of Q in TV

q

Line Inclined to both HP & VP-Rotating line method

A line 70mm long has one end 15mm above HP and 30mm in front of VP. The line is inclined at 35⁰ to HP and 45⁰ to VP. Draw its projections of the line. J12

Line Inclined to both HP & VP-Rotating line method

A line 70mm long has one end 15mm above HP and 30mm in front of VP. The line is inclined at 35^0 to HP and 45^0 to VP. Draw its projections of the line.   J12
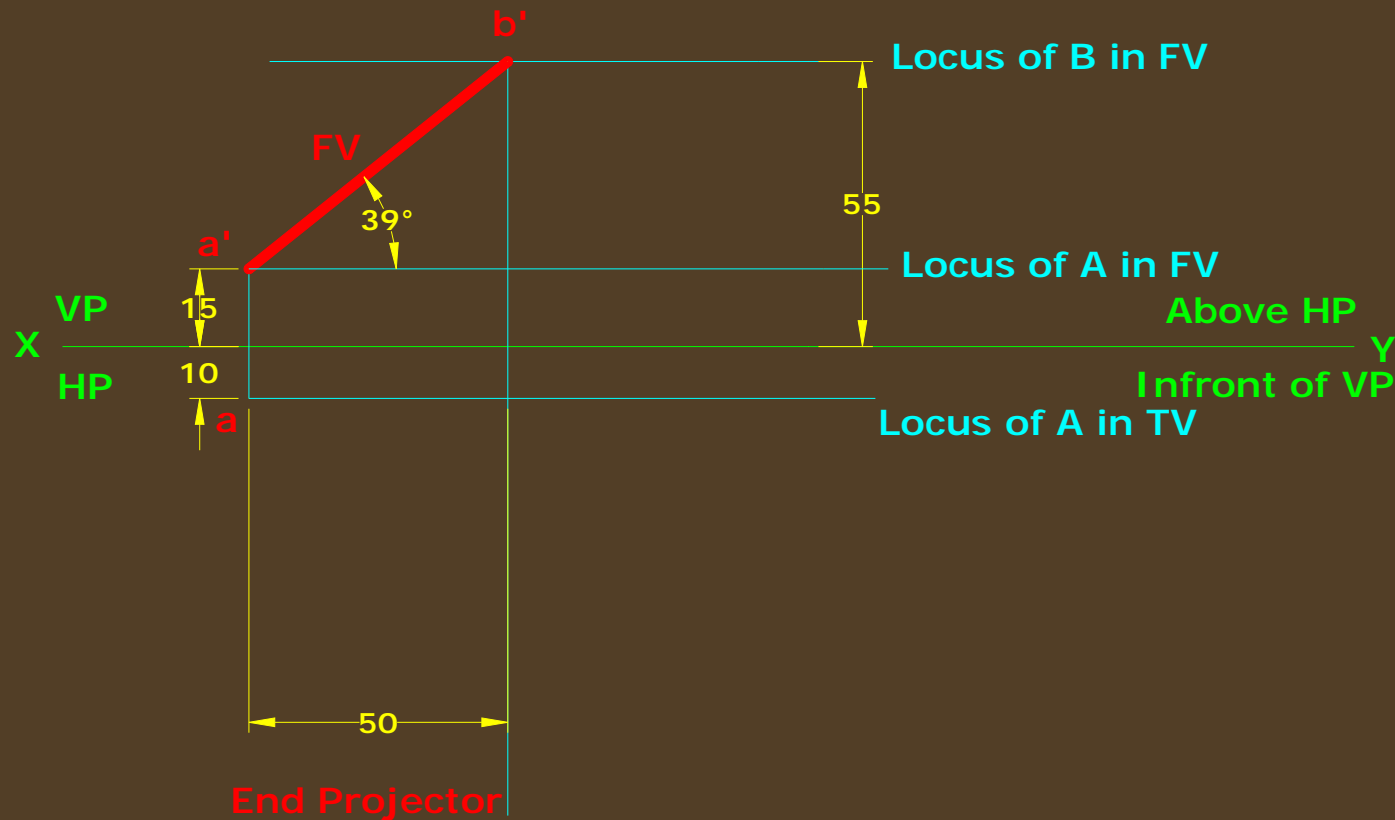
Line Inclined to both HP & VP-Rotating line method

A line AB has its end A 15mm above HP and 10mm in front of VP. The end B is 55mm above HP and the line is inclined at 30^0 to HP. The distance between end projectors of the line, when measured parallel to the line of intersection of plane is 50mm. Draw the projections and find its inclination with VP.   ST RA 13

VP

Above HP

X ——————————————————————————————— Y
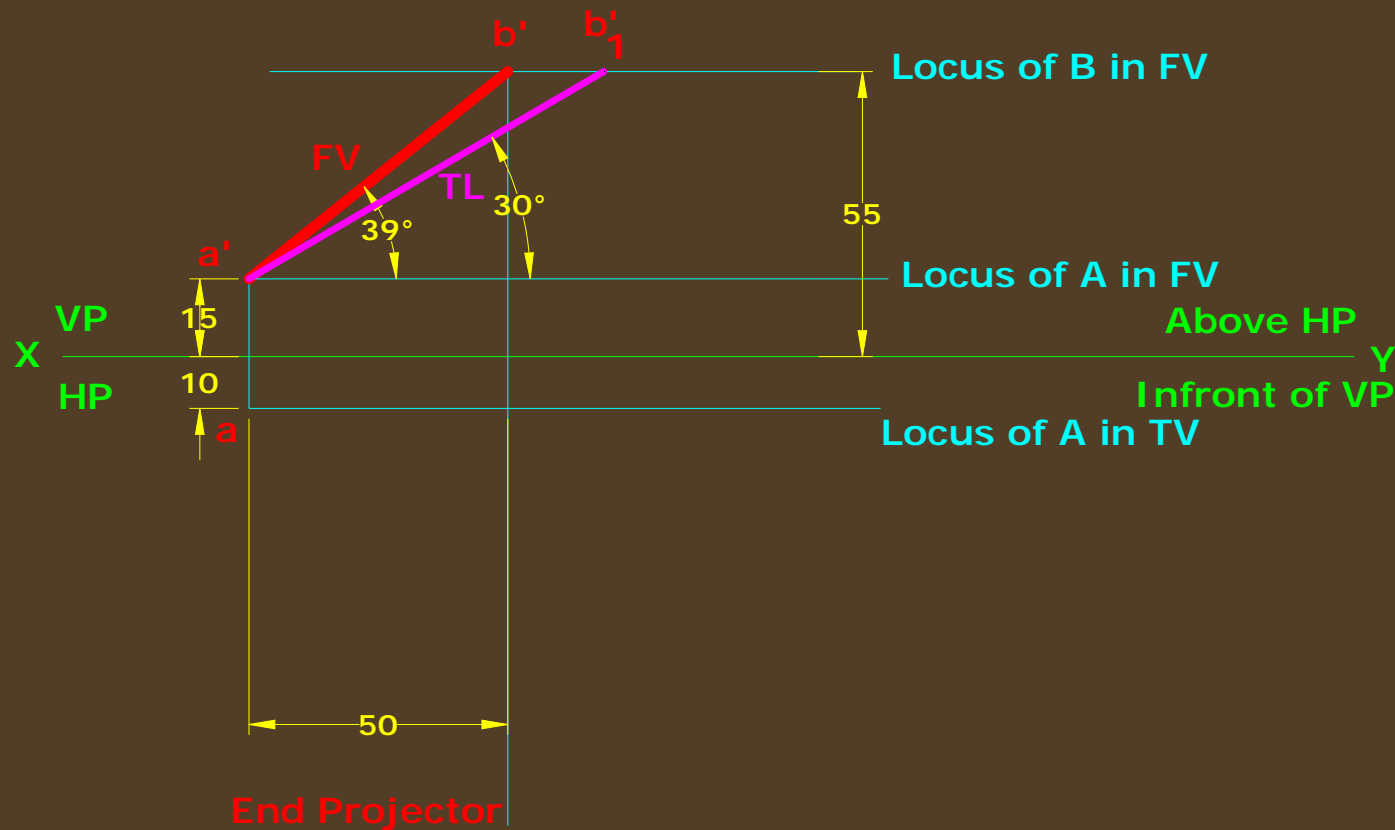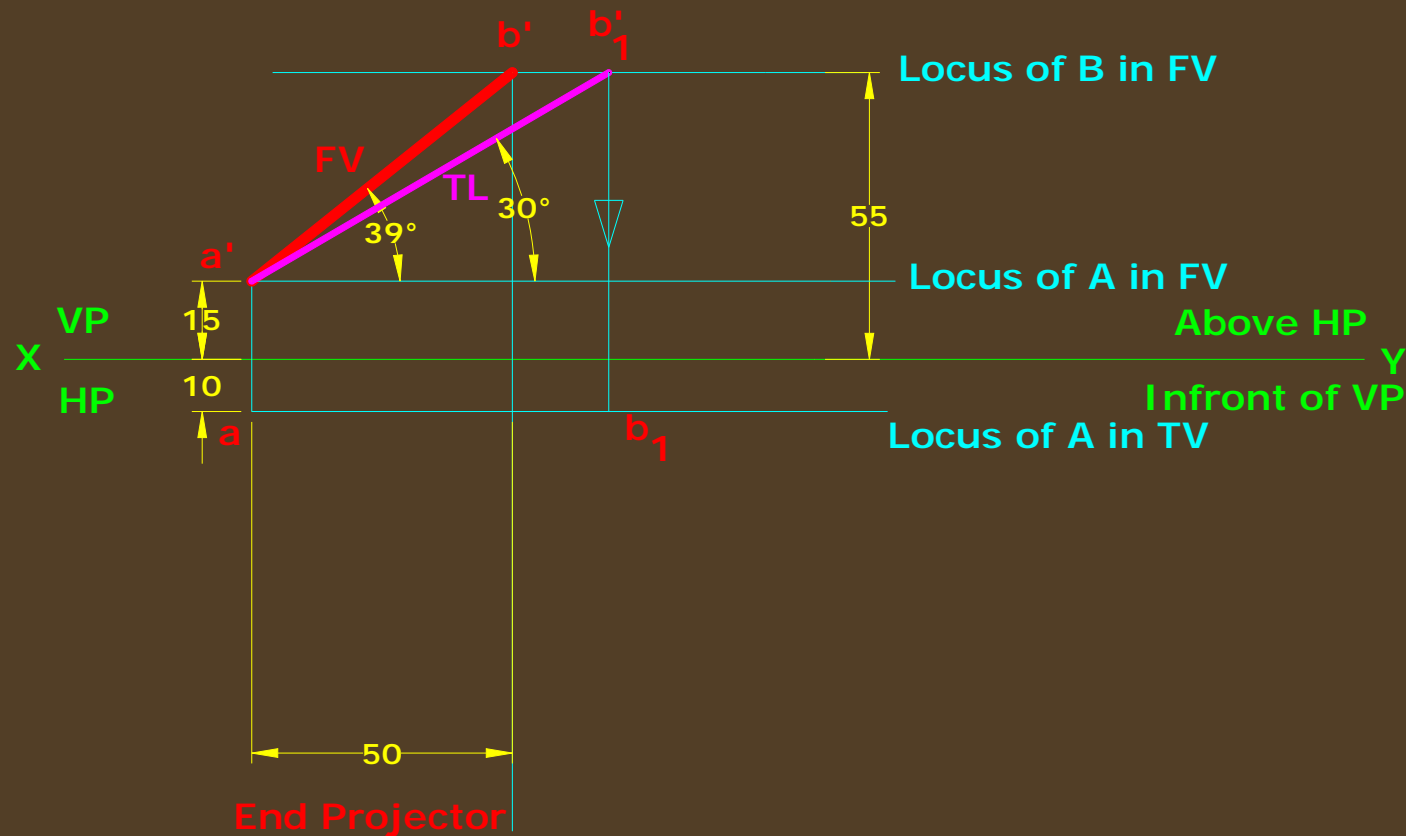
HP

Infront of VP

Line Inclined to both HP & VP-Rotating line method

A line AB has its end A 15mm above HP and 10mm in front of VP. The end B is 55mm above HP and the line is inclined at 30⁰ to HP. The distance between end projectors of the line, when measured parallel to the line of intersection of plane is 50mm. Draw the projections and find its inclination with VP.   ST RA 13

a'

VP   15   Above HP

X ————————————————————————————————— Y

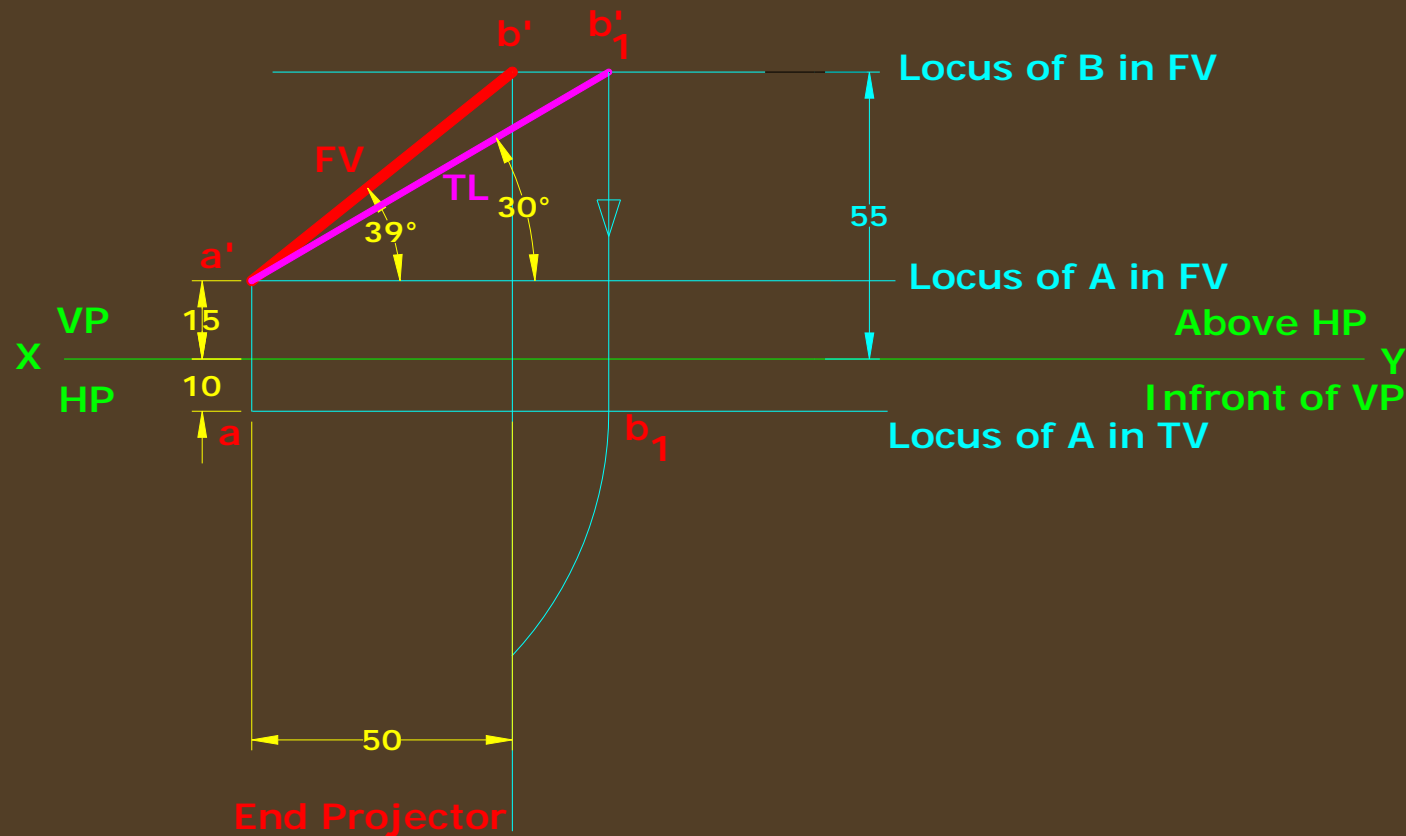HP   10   Infront of VP

a

Line Inclined to both HP & VP-Rotating line method

A line AB has its end A 15mm above HP and 10mm in front of VP. The end B is 55mm above HP and the line is inclined at 30^0 to HP. The distance between end projectors of the line, when measured parallel to the line of intersection of plane is 50mm. Draw the projections and find its inclination with VP.   ST RA 13

Locus of B in FV

55

a' Locus of A in FV

VP   15   Above HP

X ————————————————————————————— Y

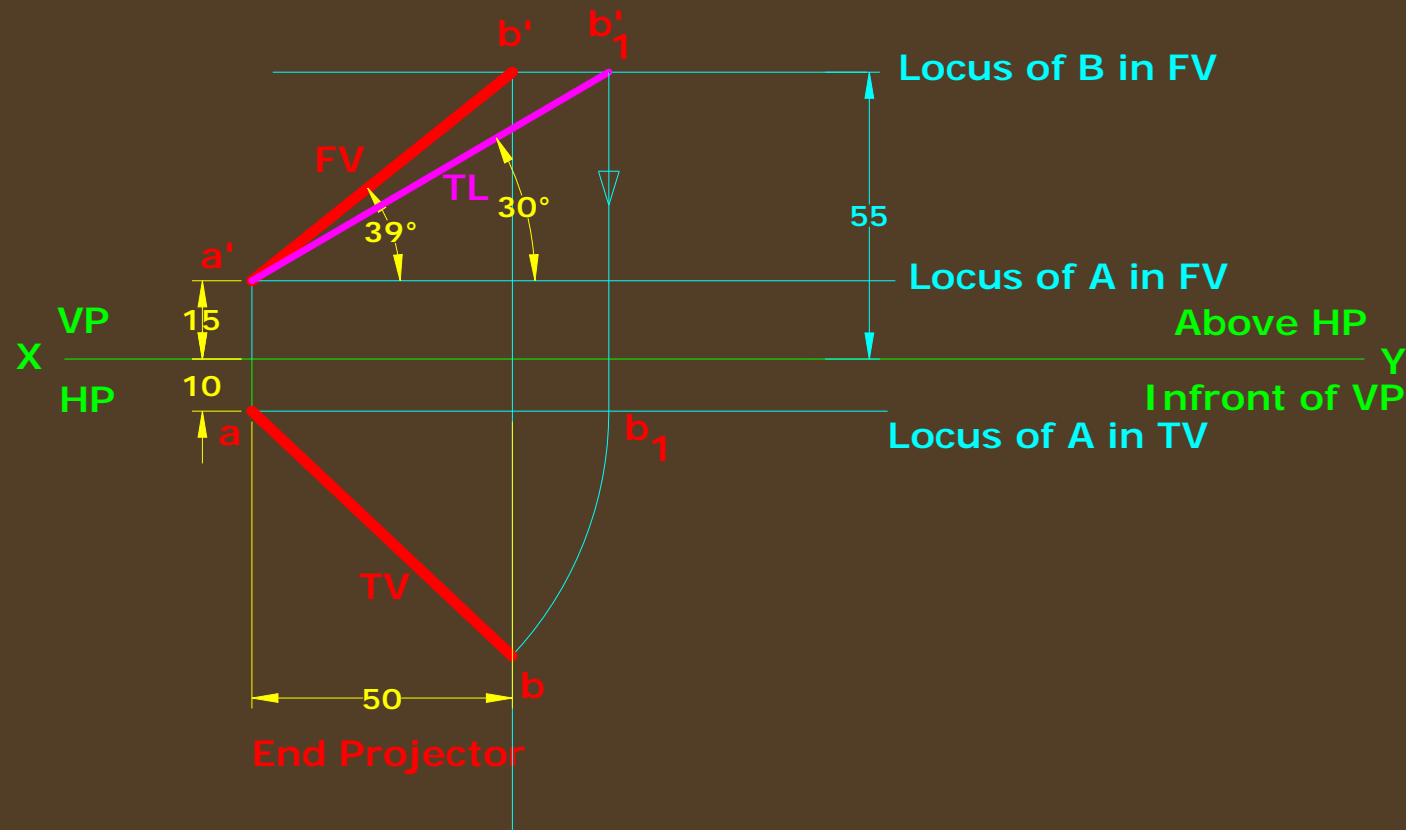HP   10   Infront of VP

a   Locus of A in TV

Line Inclined to both HP & VP-Rotating line method

A line AB has its end A 15mm above HP and 10mm in front of VP. The end B is 55mm above HP and the line is inclined at 30⁰ to HP. The distance between end projectors of the line, when measured parallel to the line of intersection of plane is 50mm. Draw the projections and find its inclination with VP.   ST RA 13
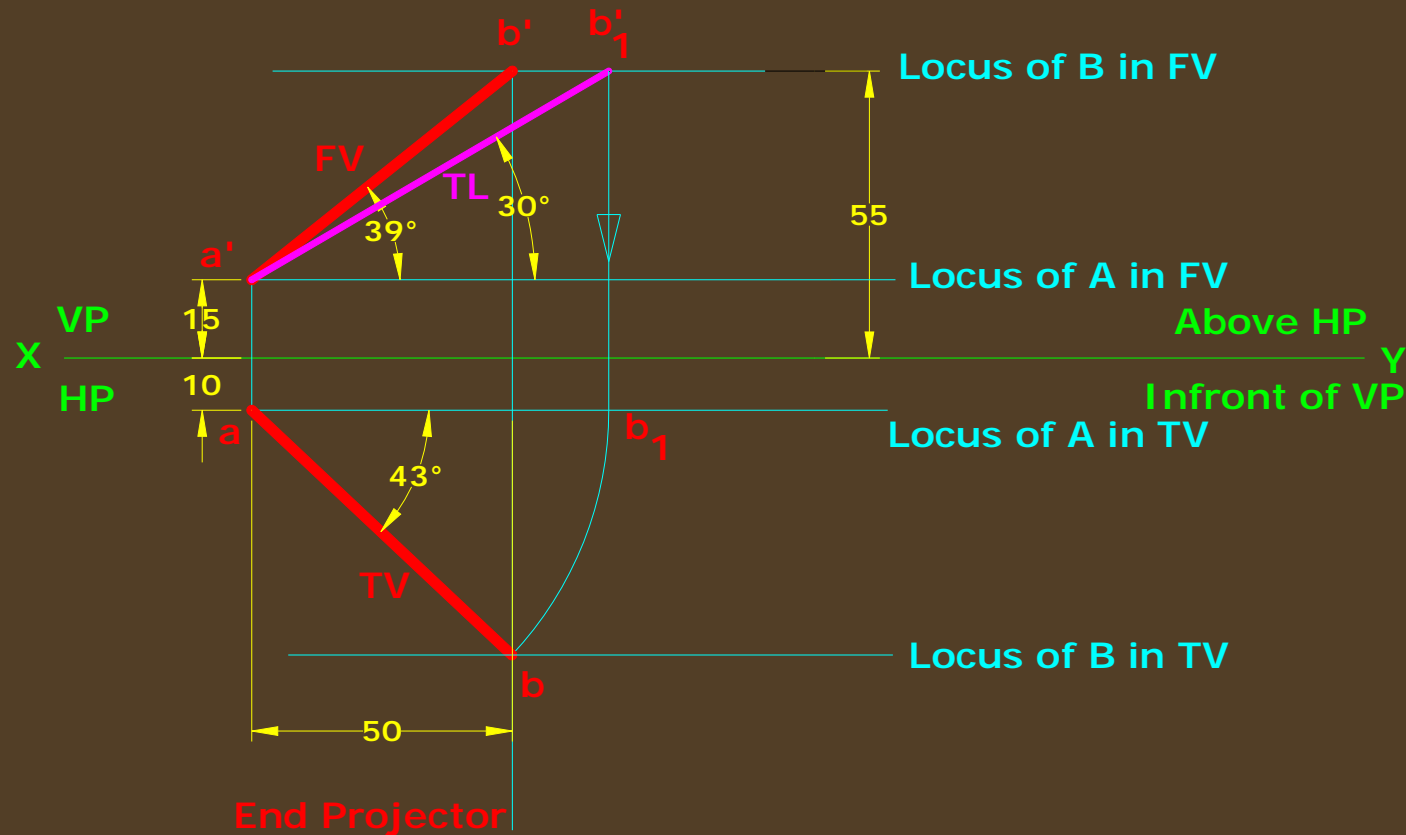
Line Inclined to both HP & VP-Rotating line method

A line AB has its end A 15mm above HP and 10mm in front of VP. The end B is 55mm above HP and the line is inclined at 30⁰ to HP. The distance between end projectors of the line, when measured parallel to the line of intersection of plane is 50mm. Draw the projections and find its inclination with VP.   ST RA 13

Line Inclined to both HP & VP-Rotating line method

A line AB has its end A 15mm above HP and 10mm in front of VP. The end B is 55mm above HP and the line is inclined at 30^0 to HP. The distance between end projectors of the line, when measured parallel to the line of intersection of plane is 50mm. Draw the projections and find its inclination with VP.   ST RA 13
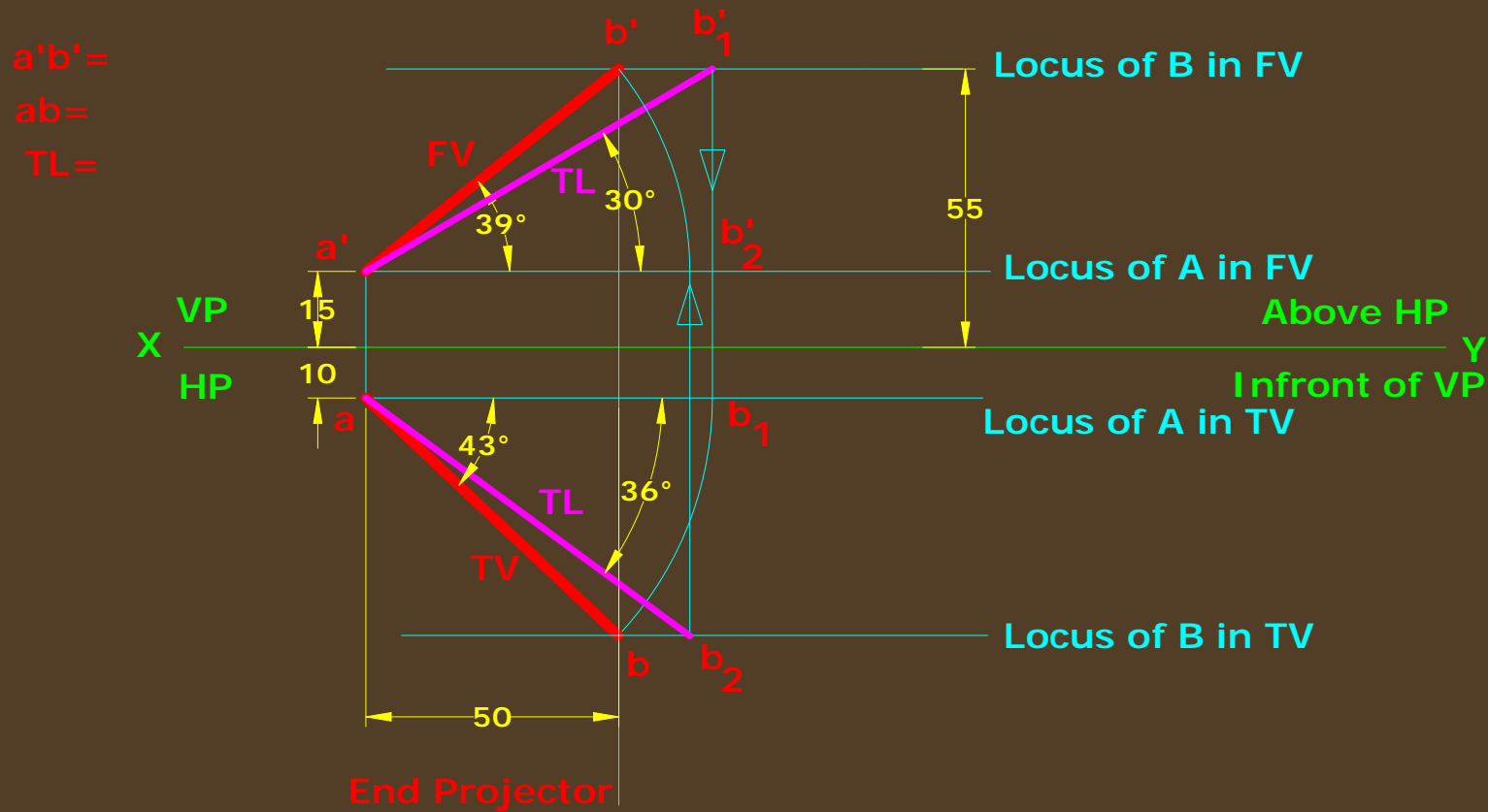
Line Inclined to both HP & VP-Rotating line method

A line AB has its end A 15mm above HP and 10mm in front of VP. The end B is 55mm above HP and the line is inclined at 30⁰ to HP. The distance between end projectors of the line, when measured parallel to the line of intersection of plane is 50mm. Draw the projections and find its inclination with VP.   ST RA 13

Line Inclined to both HP & VP-Rotating line method

A line AB has its end A 15mm above HP and 10mm in front of VP. The end B is 55mm above HP and the line is inclined at 30⁰ to HP. The distance between end projectors of the line, when measured parallel to the line of intersection of plane is 50mm. Draw the projections and find its inclination with VP.   ST RA 13

Line Inclined to both HP & VP-Rotating line method

A line AB has its end A 15mm above HP and 10mm in front of VP. The end B is 55mm above HP and the line is inclined at 30^0 to HP. The distance between end projectors of the line, when measured parallel to the line of intersection of plane is 50mm. Draw the projections and find its inclination with VP.   ST RA 13

Line Inclined to both HP & VP-Rotating line method

A line AB has its end A 15mm above HP and 10mm in front of VP. The end B is 55mm above HP and the line is inclined at 30^0 to HP. The distance between end projectors of the line, when measured parallel to the line of intersection of plane is 50mm. Draw the projections and find its inclination with VP.   ST RA 13

Line Inclined to both HP & VP-Rotating line method

A line AB has its end A 15mm above HP and 10mm in front of VP. The end B is 55mm above HP and the line is inclined at 30^0 to HP. The distance between end projectors of the line, when measured parallel to the line of intersection of plane is 50mm. Draw the projections and find its inclination with VP. ST RA 13

Line Inclined to both HP & VP-Rotating line method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length . ST RA 17
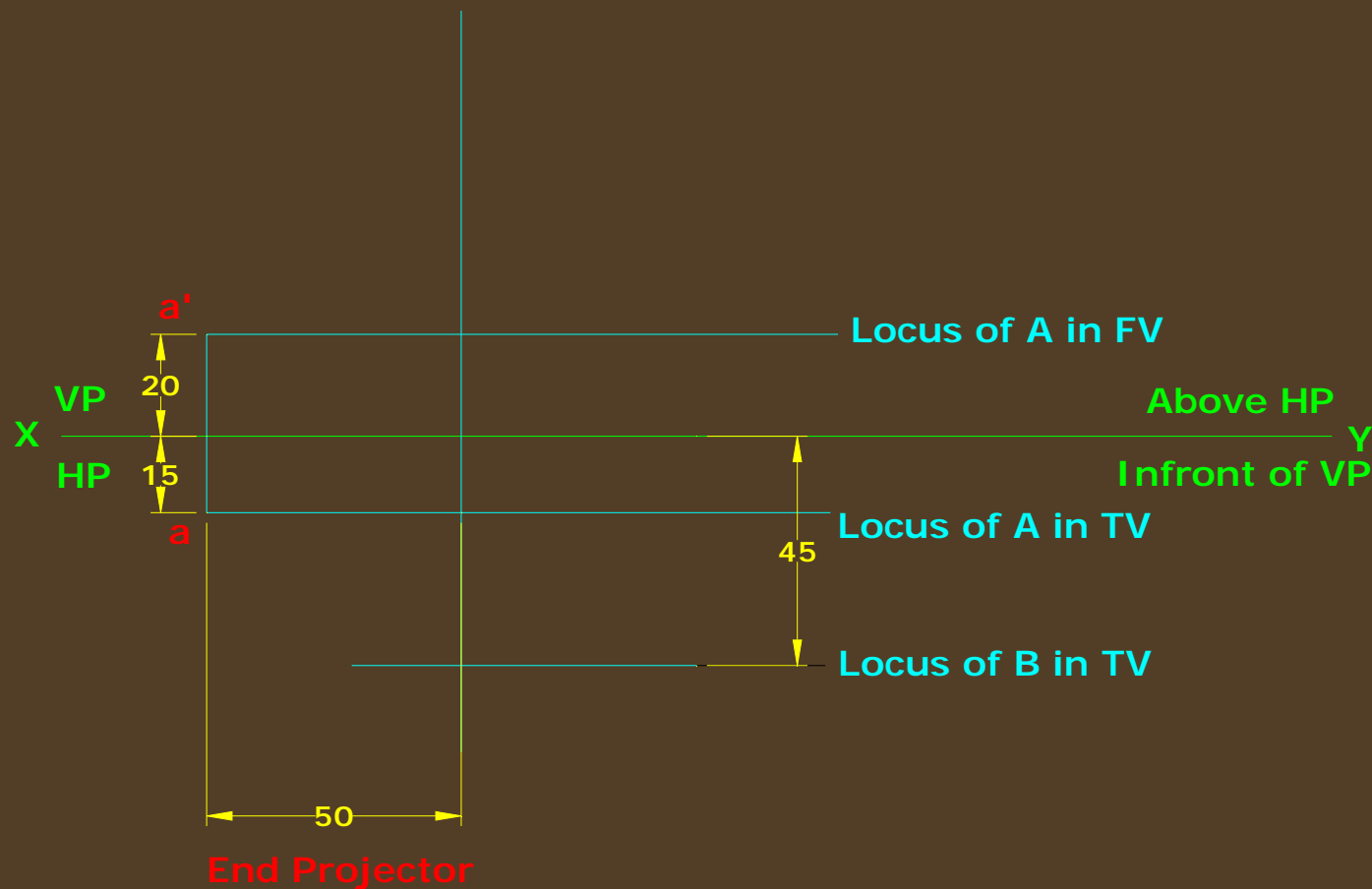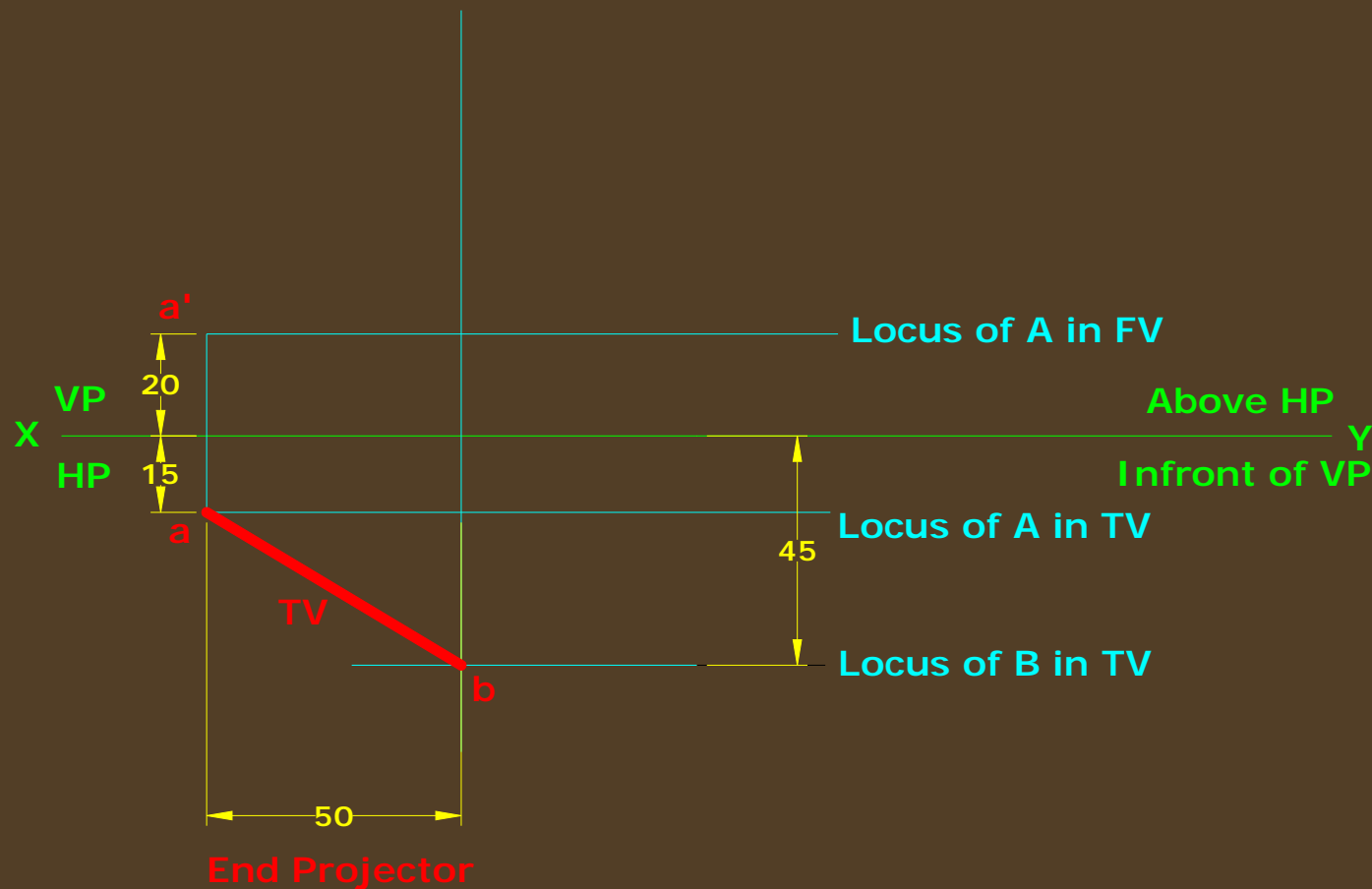
VP

Above HP

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

HP

Infront of VP

Line Inclined to both HP & VP-Rotating line method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length . ST RA 17
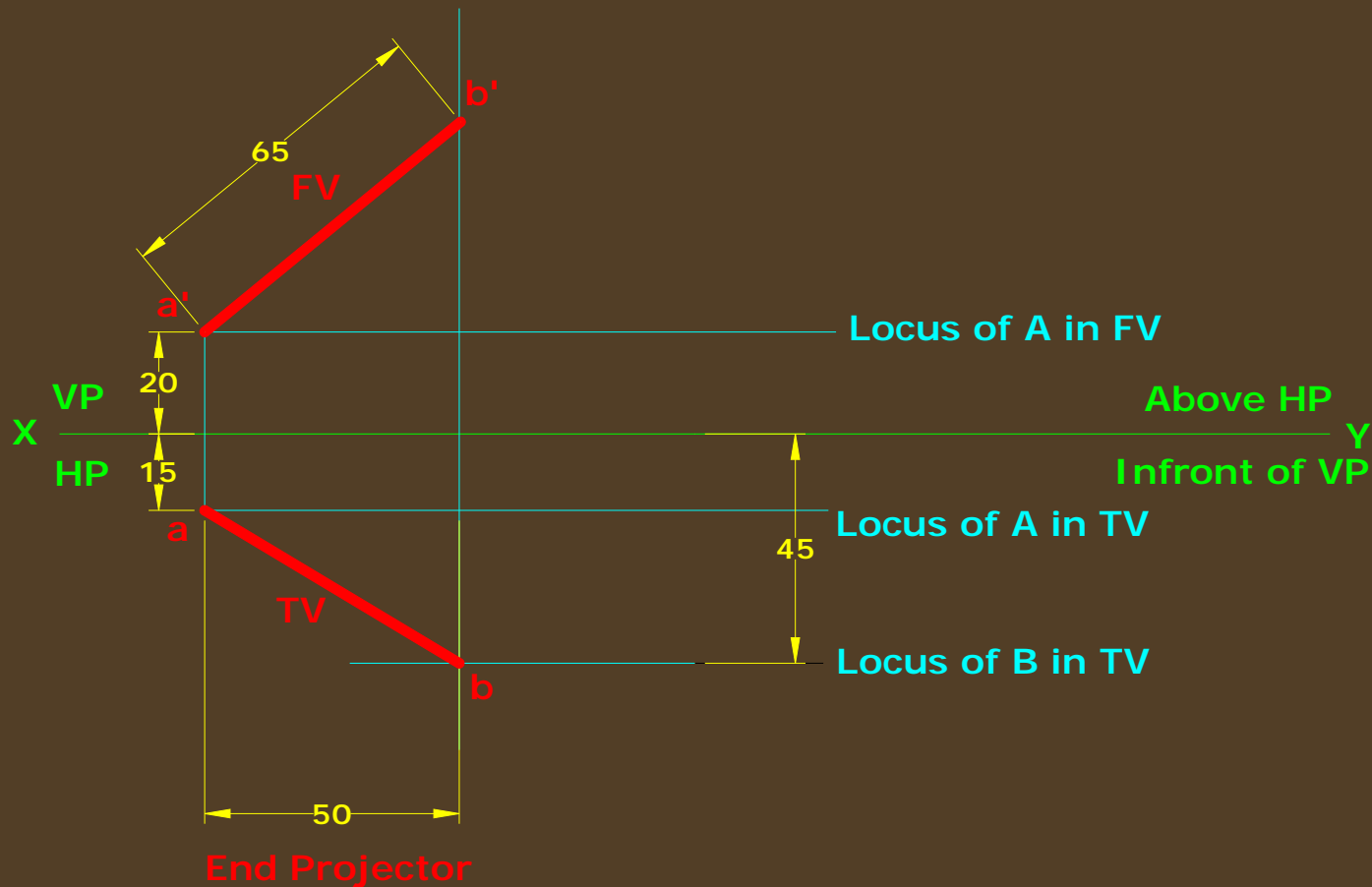
a'

VP   20   Above HP

X   Y

HP   15   Infront of VP

a

Line Inclined to both HP & VP-Rotating line method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length .   ST RA 17
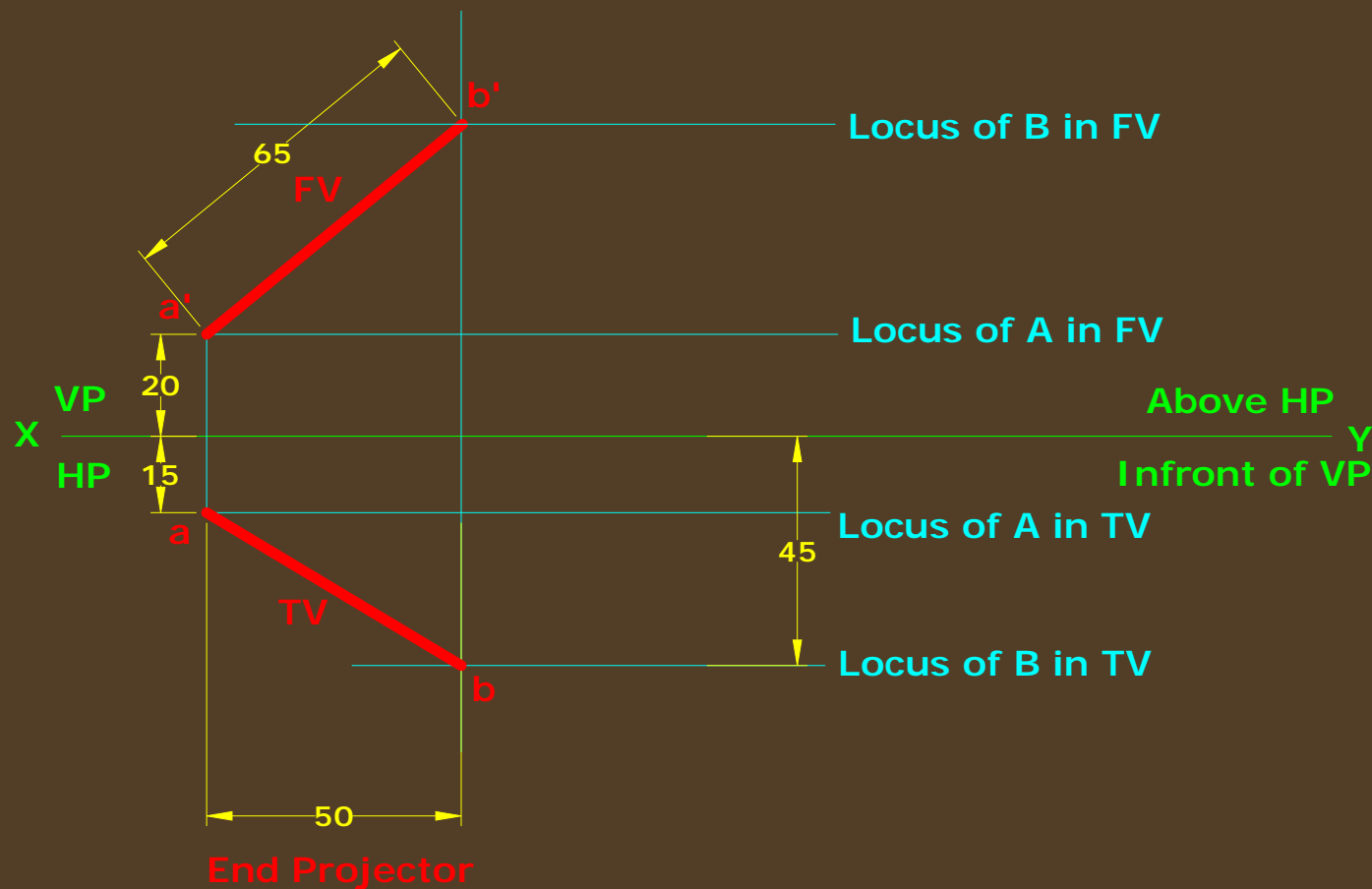
Line Inclined to both HP & VP-Rotating line method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length . ST RA 17
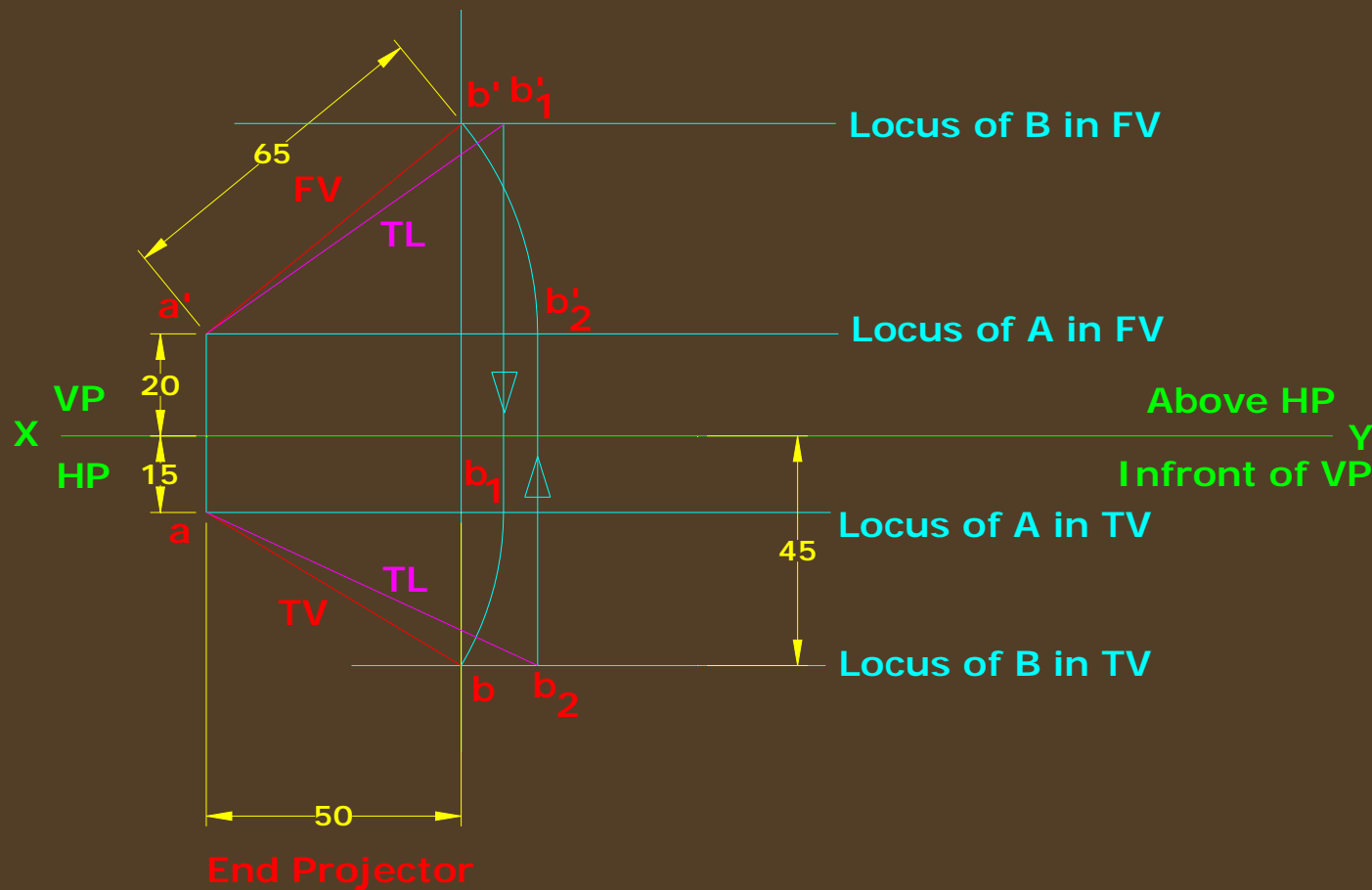

a'

VP 20

X — Y

HP 15

a

45

Locus of A in FV

Above HP

Infront of VP

Locus of A in TV

Locus of B in TV

Line Inclined to both HP & VP-Rotating line method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length .   ST RA 17
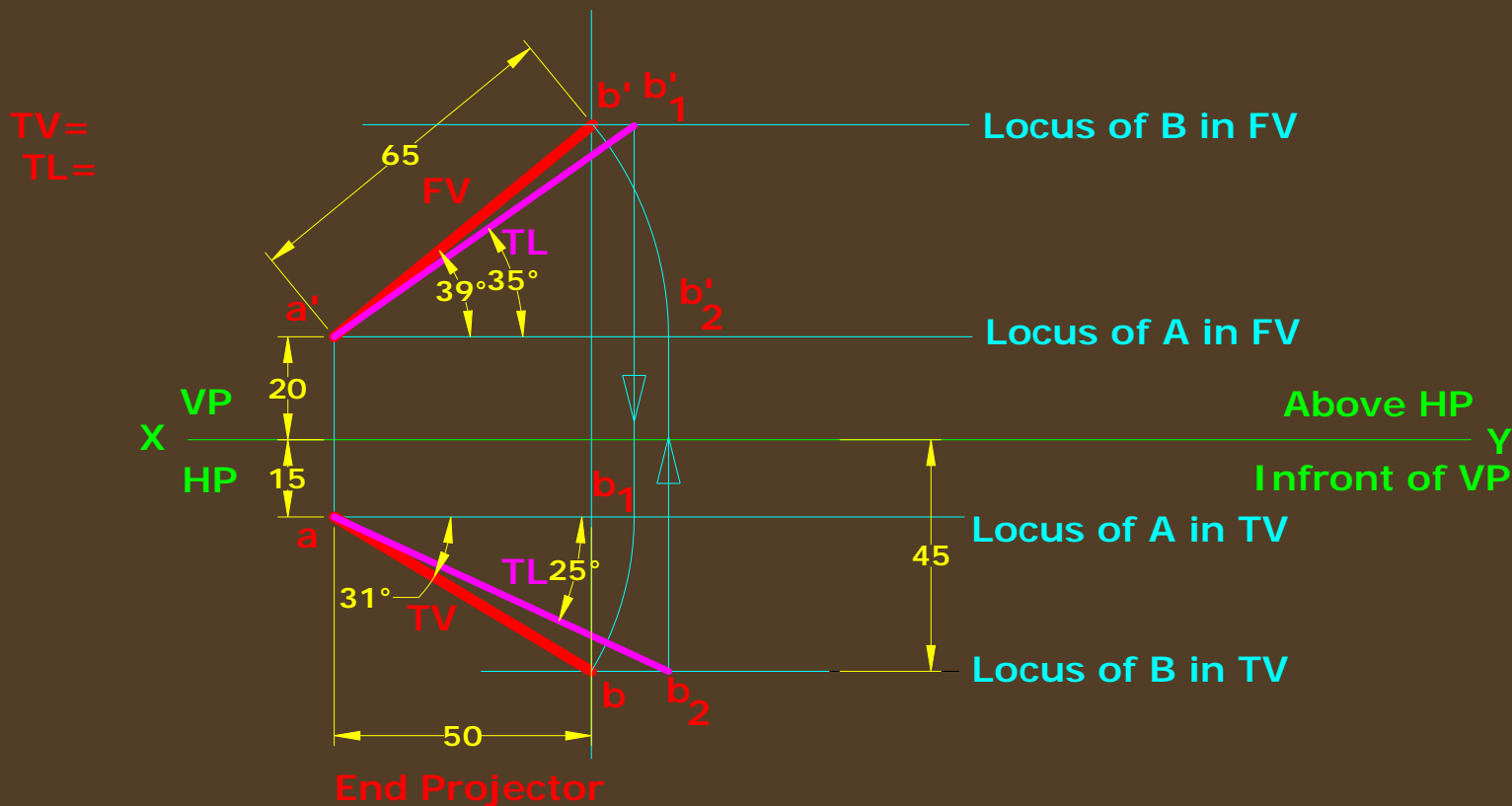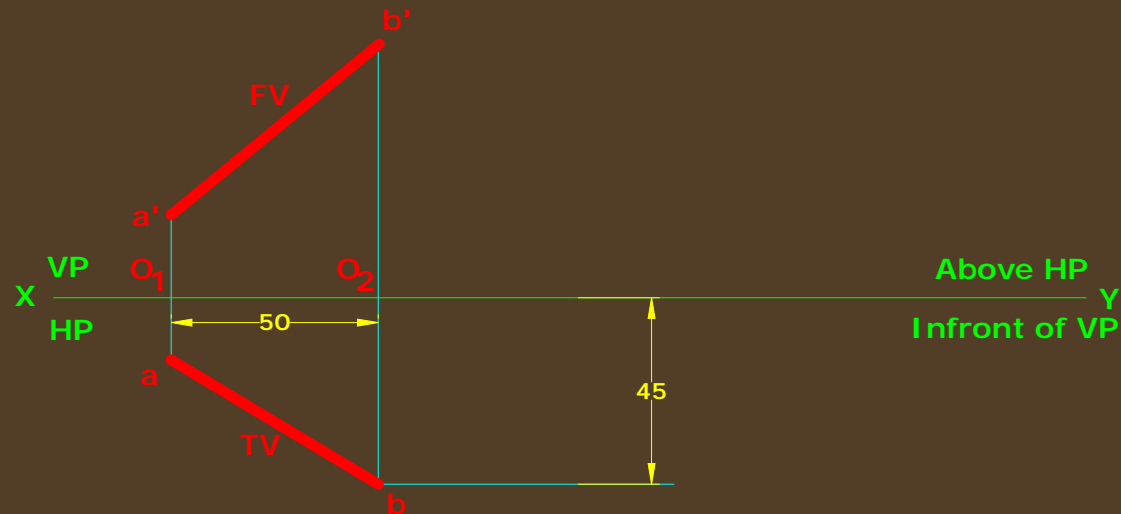
Line Inclined to both HP & VP-Rotating line method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length . ST RA 17

a'

Locus of A in FV

VP 20

Above HP

X ——————————————————————————————— Y

HP 15

Infront of VP

a

Locus of A in TV

45

TV

Locus of B in TV

b

50

End Projector

Line Inclined to both HP & VP-Rotating line method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length . ST RA 17
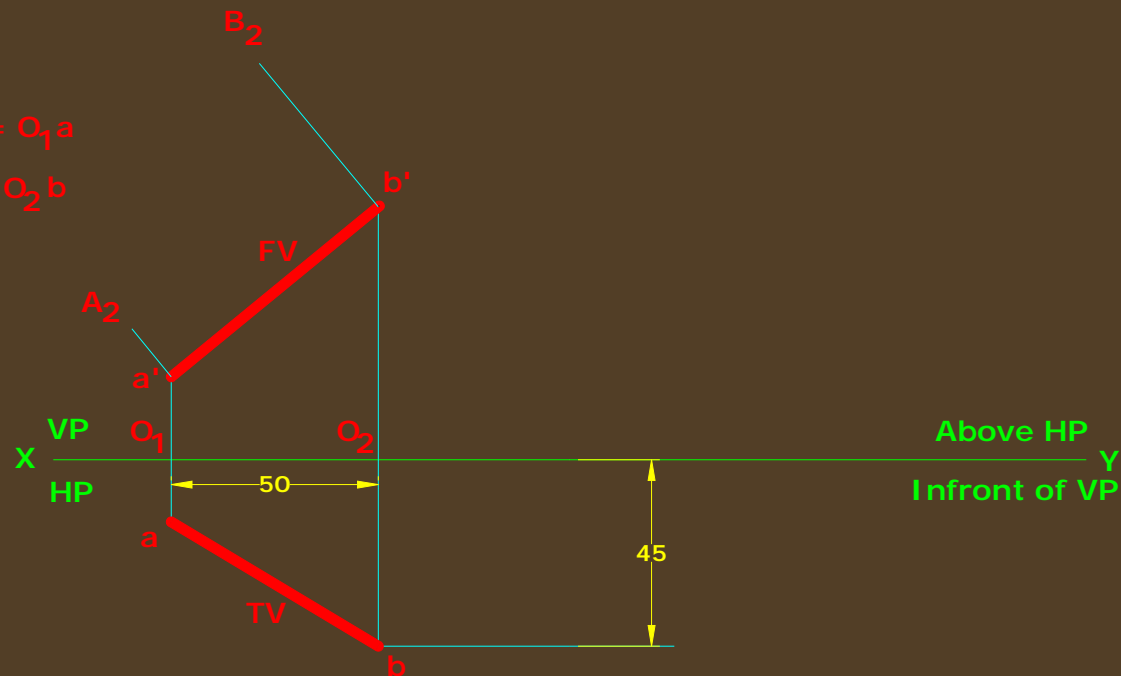
Line Inclined to both HP & VP-Rotating line method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length .   ST RA 17
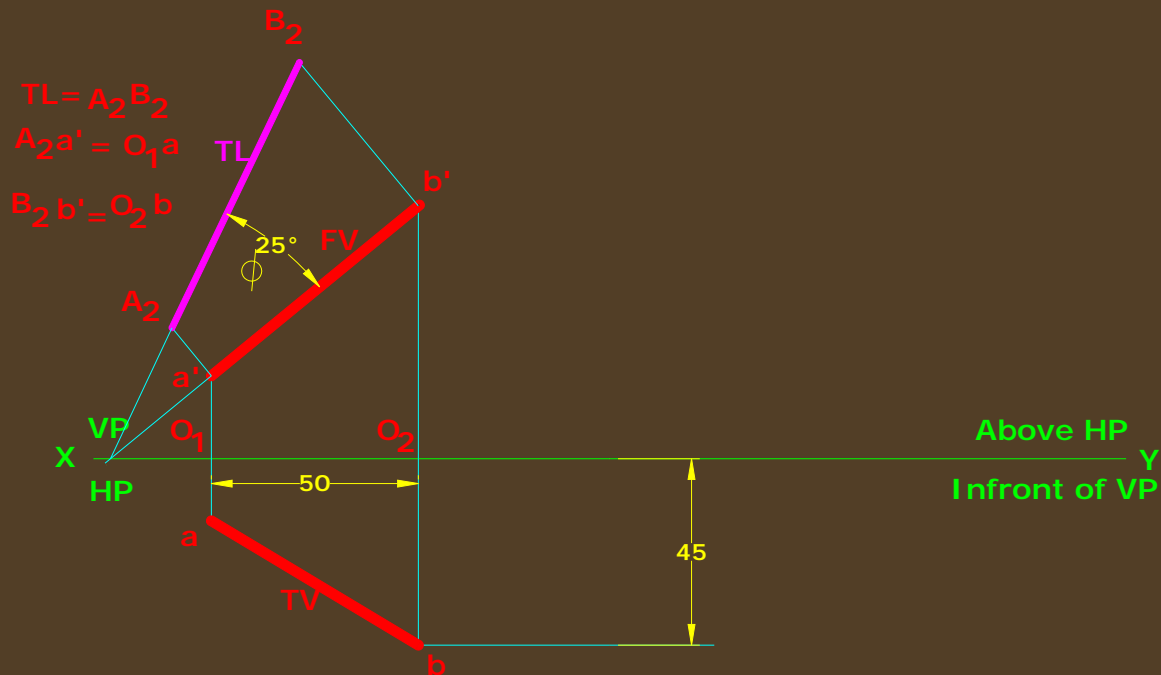
Line Inclined to both HP & VP-Rotating line method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length . ST RA 17
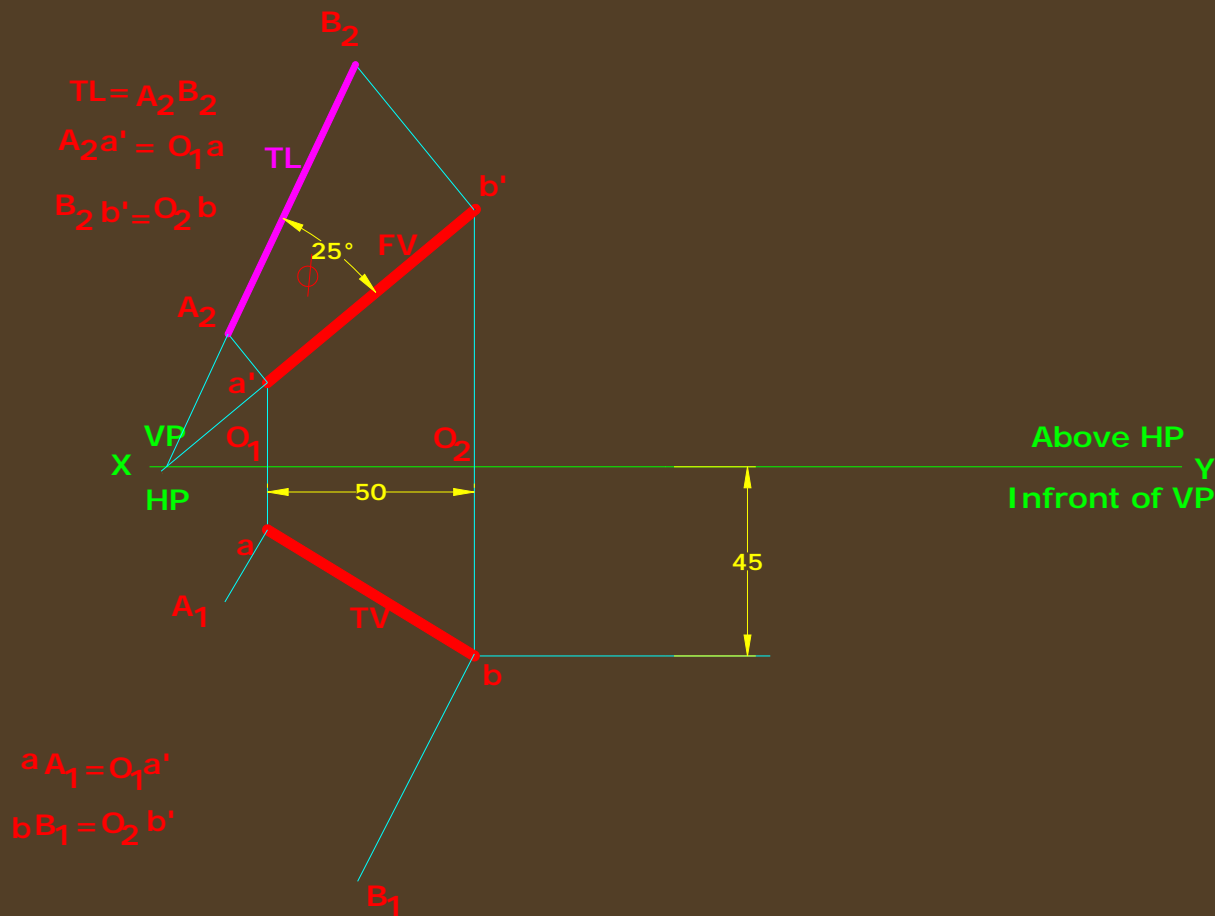
Line Inclined to both HP & VP-Rotating line method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length .   ST RA 17
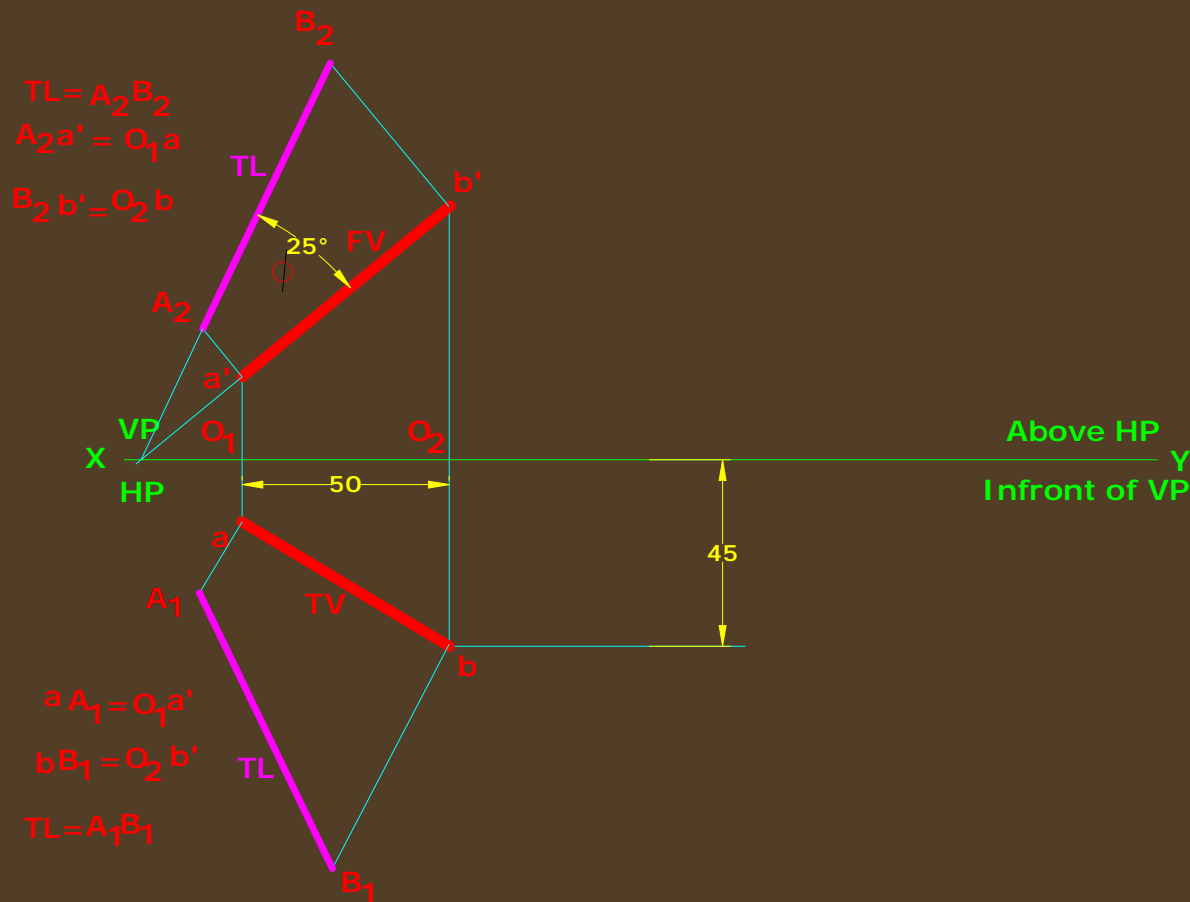
Line Inclined to both HP & VP- Trapezoidal plane method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length .   ST RA T 17
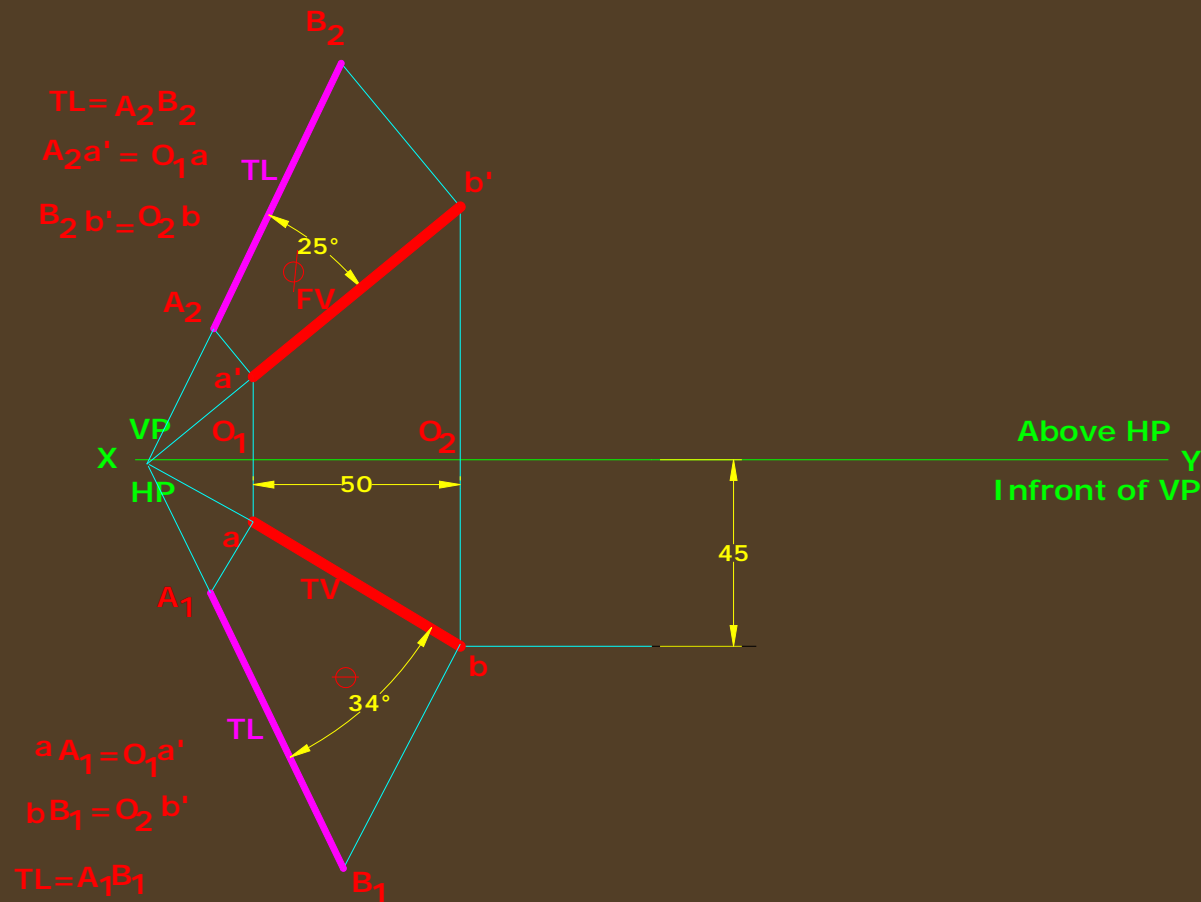
Line Inclined to both HP & VP- Trapezoidal plane method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length .   ST RA T 17

B_2

$A_2 a' = O_1 a$

$B_2 b' = O_2 b$

b'

FV

A_2

a'

VP O_1 O_2 Above HP

X   Y

HP   50

a   Infront of VP

45

TV

b

Line Inclined to both HP & VP- Trapezoidal plane method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length .   ST RA T 17
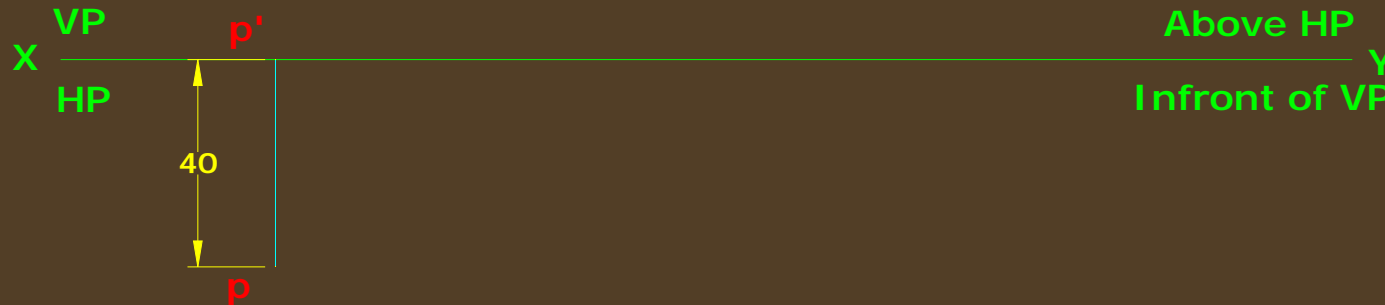
B_2

$TL = A_2 B_2$

$A_2 a' = O_1 a$ TL

$B_2 b' = O_2 b$

b'

FV

A_2

a'

VP O_1 O_2 Above HP

X ————————————————————————————— Y

HP |← 50 →| Infront of VP

a

45

TV

b

Line Inclined to both HP & VP- Trapezoidal plane method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length .   ST RA T 17

Line Inclined to both HP & VP- Trapezoidal plane method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length .   ST RA T 17

Line Inclined to both HP & VP- Trapezoidal plane method

The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length .   ST RA T 17

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The distance between end projectors passing through the end points is 50mm, the end A is 20mm above HP and 15mm in front of VP, the end B is 45mm in front of VP. The front view of the line AB measures 65mm. Draw the projections and find its true inclinations and true length .   ST RA T 17
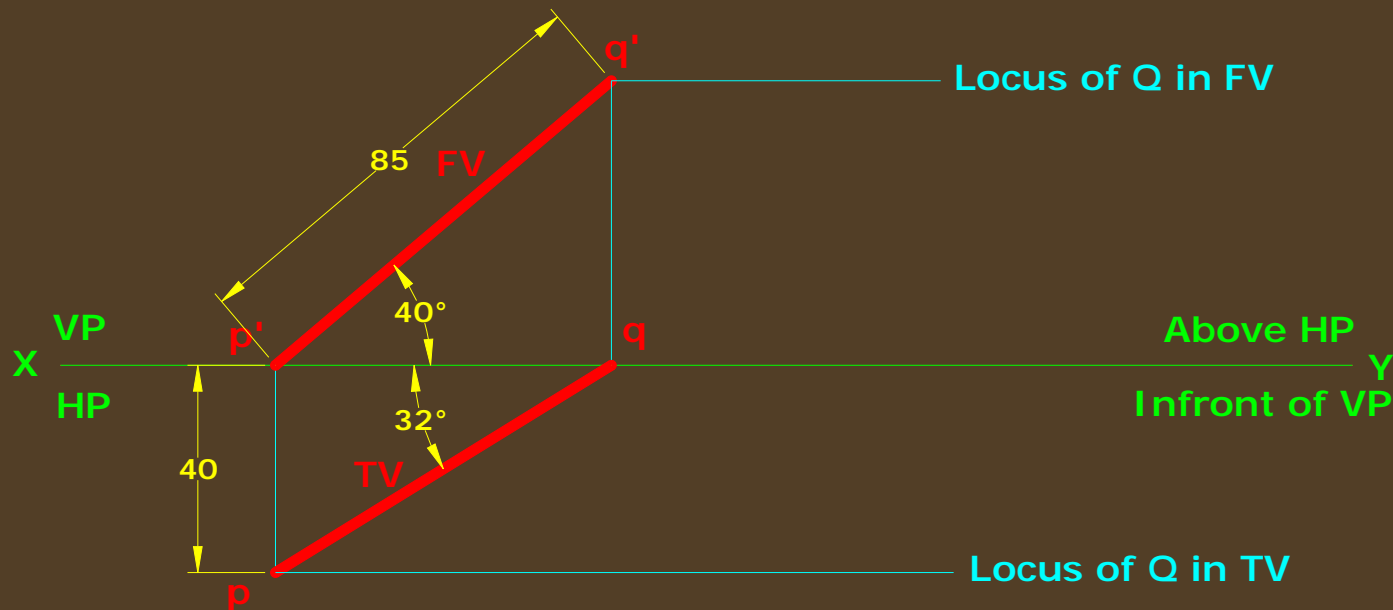
Line Inclined to both HP & VP- Rotating Line method

The end P of a line PQ is in the HP and 40mm in front of VP. The end Q is in VP. The front view of the line makes an angle of 400 with XY and has a length of 85mm. Draw the projections ST RA 25
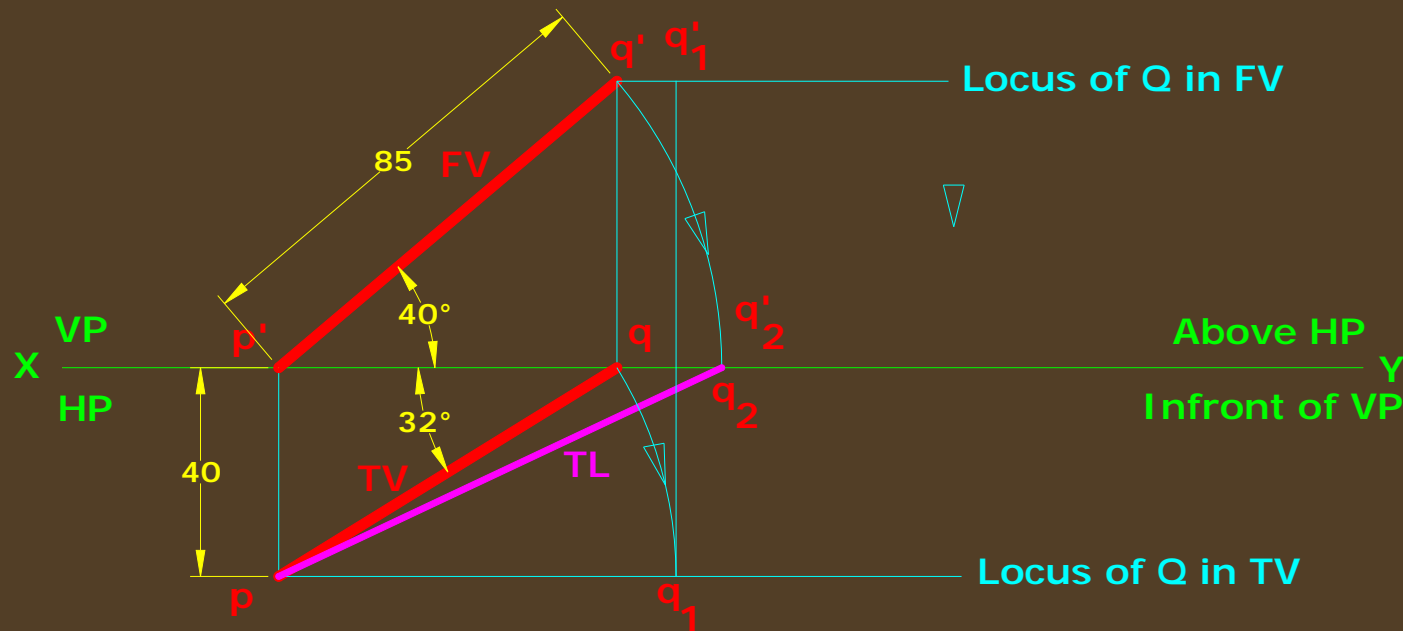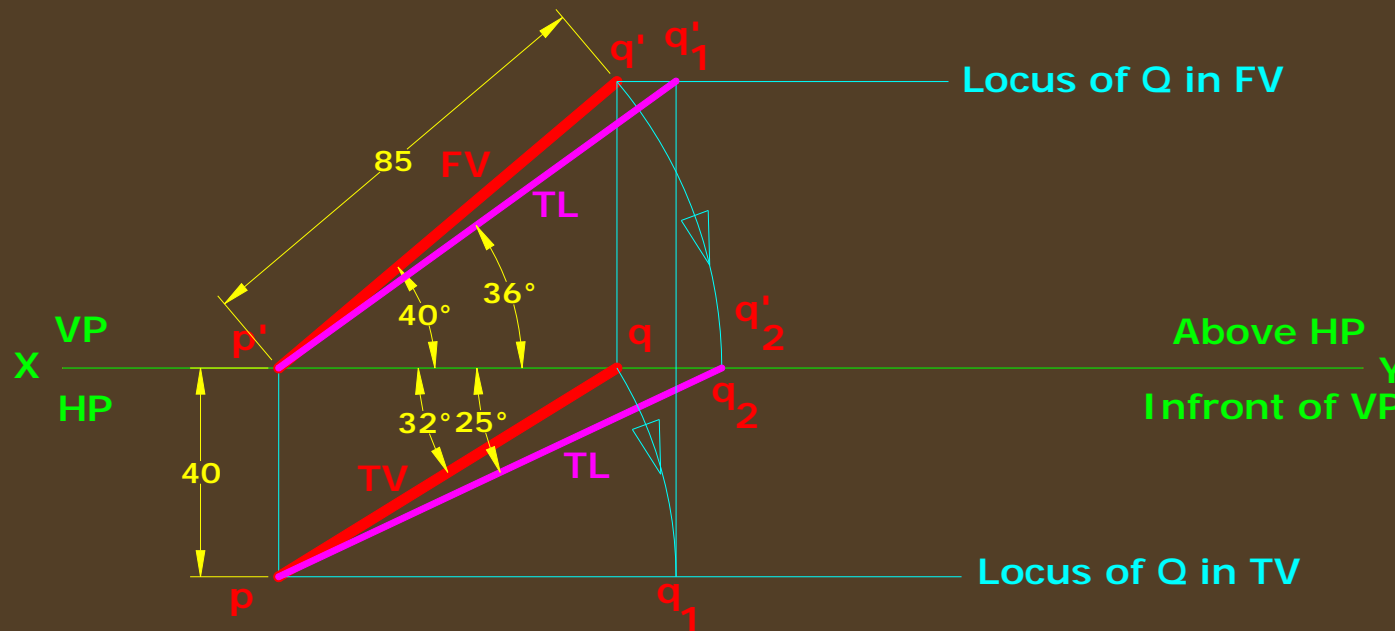
VP

Above HP

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

HP

Infront of VP

Line Inclined to both HP & VP- Rotating Line method

The end P of a line PQ is in the HP and 40mm in front of VP. The end Q is in VP. The front view of the line makes an angle of 400 with XY and has a length of 85mm. Draw the projections ST RA 25

VP

p'

X ——— Y

HP

Above HP

Infront of VP

40

p

Line Inclined to both HP & VP- Rotating Line method

The end P of a line PQ is in the HP and 40mm in front of VP. The end Q is in VP. The front view of the line makes an angle of 400 with XY and has a length of 85mm. Draw the projections ST RA 25
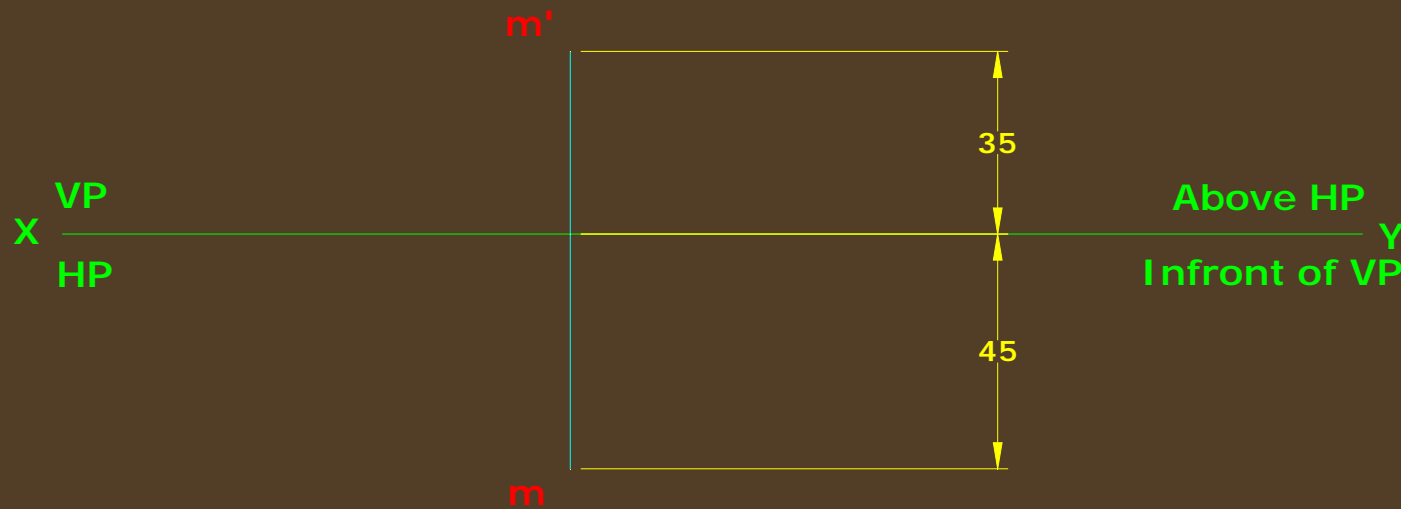
Line Inclined to both HP & VP- Rotating Line method

The end P of a line PQ is in the HP and 40mm in front of VP. The end Q is in VP. The front view of the line makes an angle of 400 with XY and has a length of 85mm. Draw the projections ST RA 25

Line Inclined to both HP & VP- Rotating Line method

The end P of a line PQ is in the HP and 40mm in front of VP. The end Q is in VP. The front view of the line makes an angle of 400 with XY and has a length of 85mm. Draw the projections ST RA 25

Line Inclined to both HP & VP- Rotating Line method

The end P of a line PQ is in the HP and 40mm in front of VP. The end Q is in VP. The front view of the line makes an angle of 400 with XY and has a length of 85mm. Draw the projections ST RA 25

Line Inclined to both HP & VP- Rotating Line method

The end P of a line PQ is in the HP and 40mm in front of VP. The end Q is in VP. The front view of the line makes an angle of 400 with XY and has a length of 85mm. Draw the projections ST RA 25

Line Inclined to both HP & VP- Rotating Line method

The end P of a line PQ is in the HP and 40mm in front of VP. The end Q is in VP. The front view of the line makes an angle of 400 with XY and has a length of 85mm. Draw the projections ST RA 25

Line Inclined to both HP & VP- Rotating Line method

The end P of a line PQ is in the HP and 40mm in front of VP. The end Q is in VP. The front view of the line makes an angle of 400 with XY and has a length of 85mm. Draw the projections ST RA 25
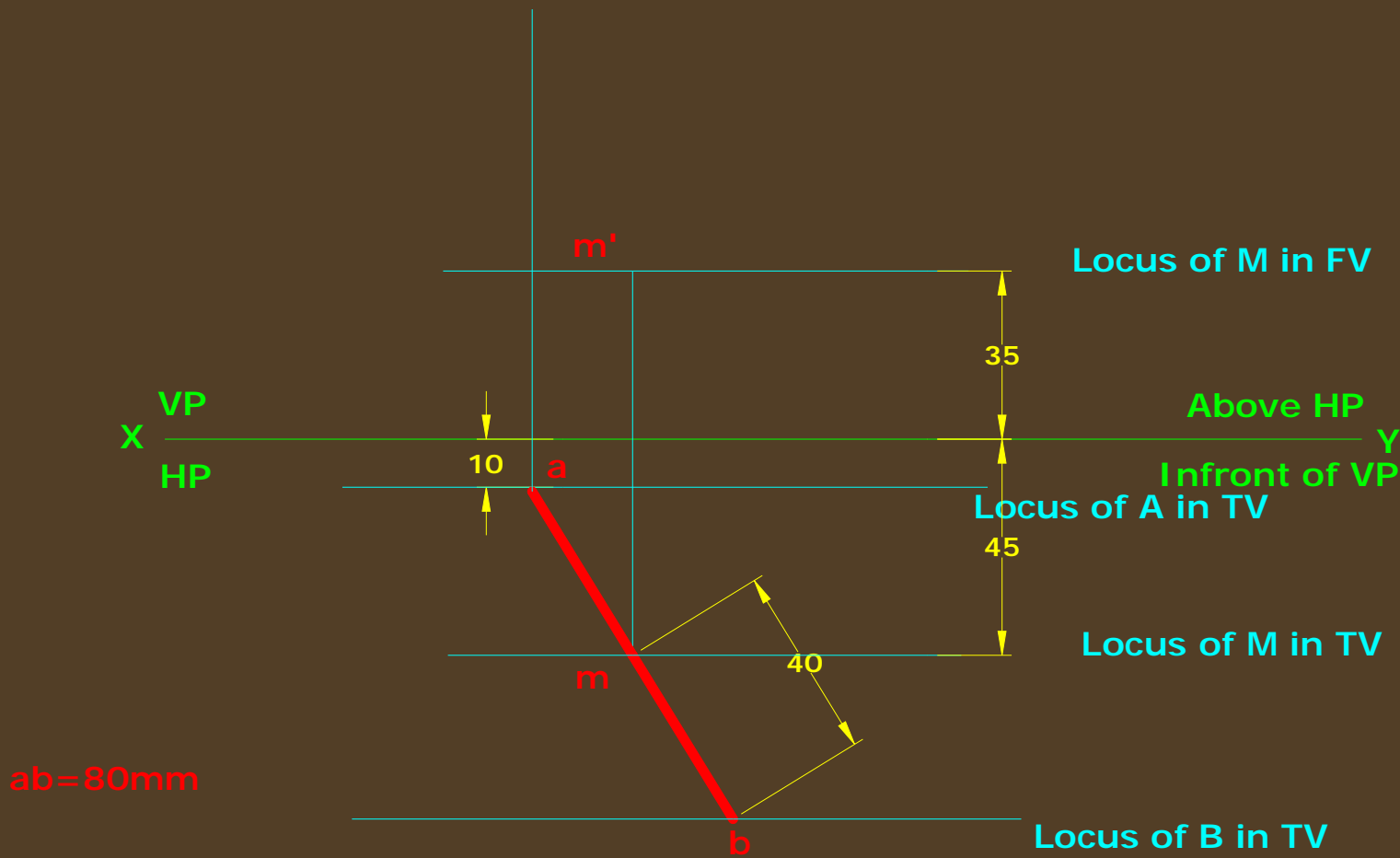
Line Inclined to both HP & VP- Mid Point Problem

The mid point M of a line AB is 35mm above HP and 45mm in front of VP. The top view of the line is 80mm and the front view measures 70mm. One end A is 10mm in front of and nearer to VP. The other end B is nearer to HP. Draw its projections.   ST RA 26
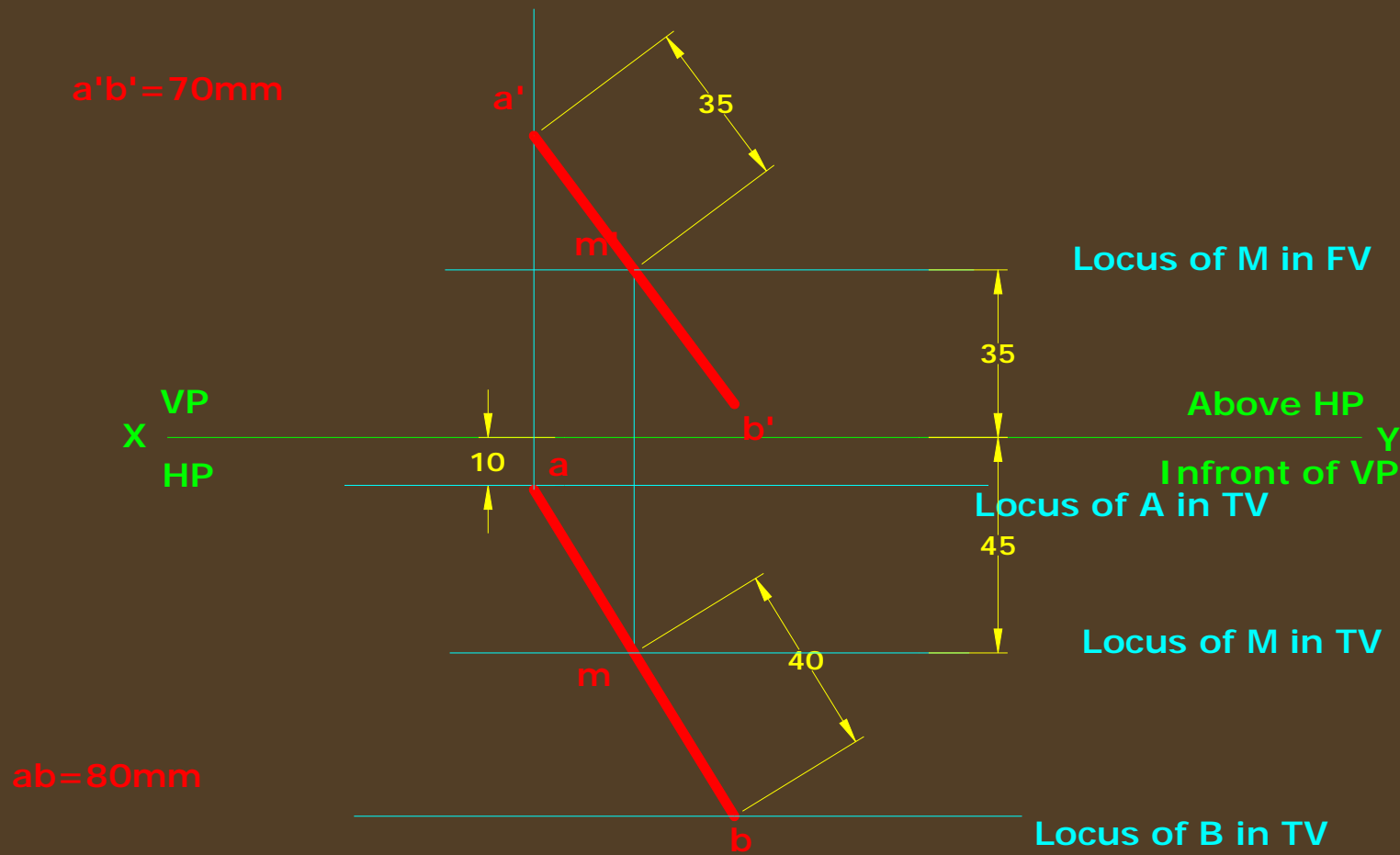
VP

Above HP

X ———————————————————————————————— Y

HP

Infront of VP

Line Inclined to both HP & VP- Mid Point Problem

The mid point M of a line AB is 35mm above HP and 45mm in front of VP. The top view of the line is 80mm and the front view measures 70mm. One end A is 10mm in front of and nearer to VP. The other end B is nearer to HP. Draw its projections.   ST RA 26
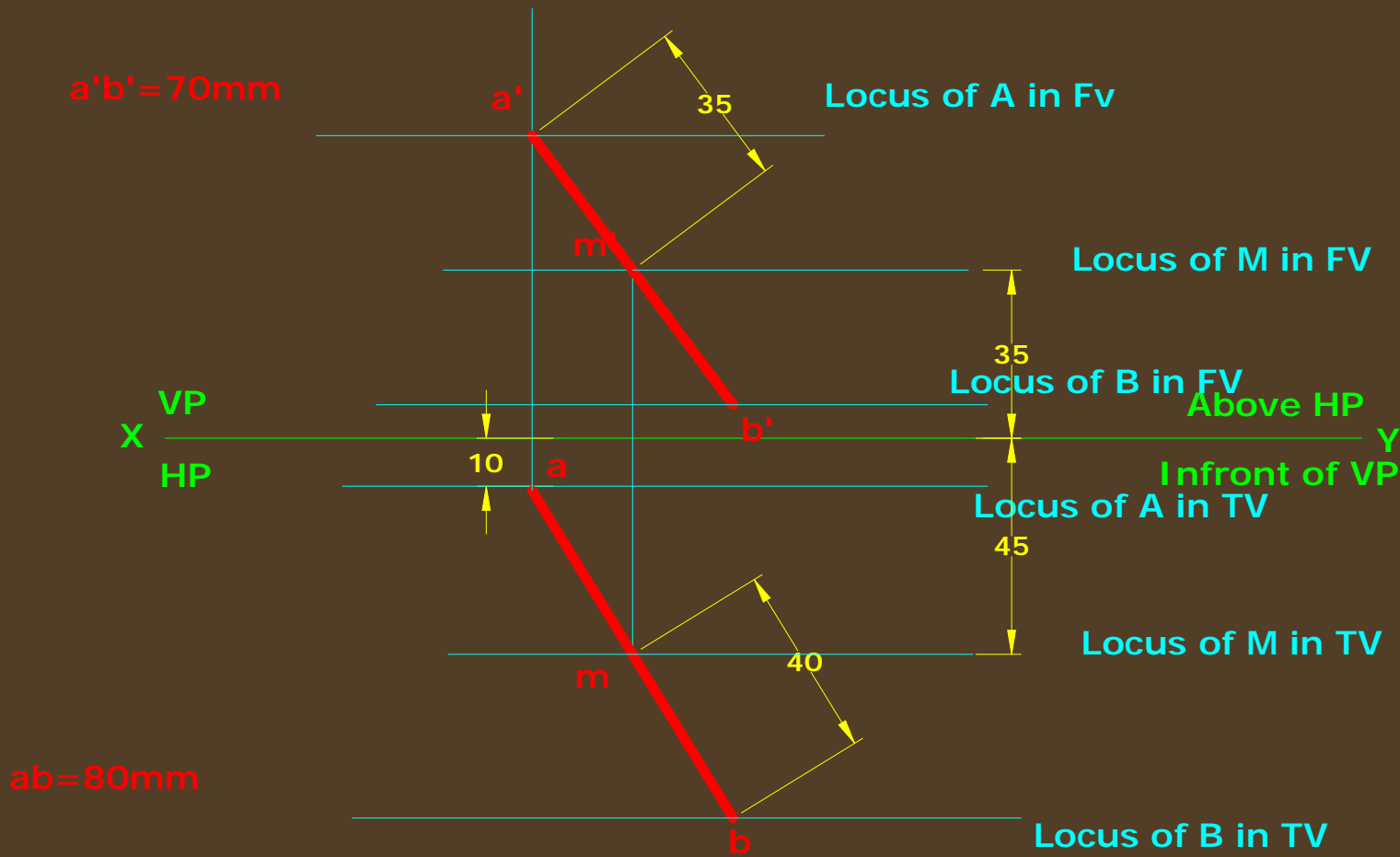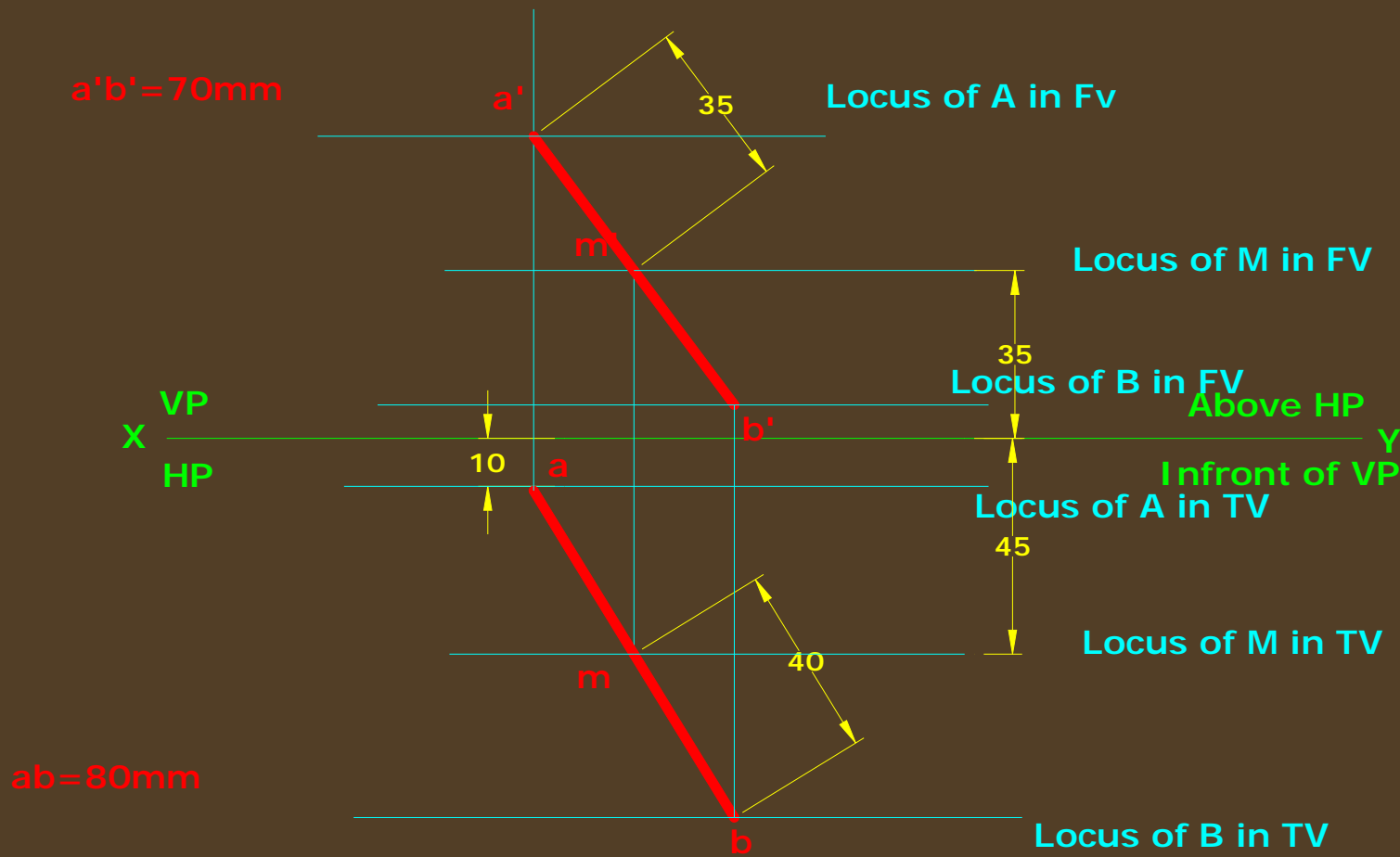
Line Inclined to both HP & VP- Mid Point Problem

The mid point M of a line AB is 35mm above HP and 45mm in front of VP. The top view of the line is 80mm and the front view measures 70mm. One end A is 10mm in front of and nearer to VP. The other end B is nearer to HP. Draw its projections.   ST RA 26

m'

35

VP   Above HP
X ——— Y
HP   10   a   Infront of VP

45

m

Line Inclined to both HP & VP- Mid Point Problem

The mid point M of a line AB is 35mm above HP and 45mm in front of VP. The top view of the line is 80mm and the front view measures 70mm. One end A is 10mm in front of and nearer to VP. The other end B is nearer to HP. Draw its projections.   ST RA 26
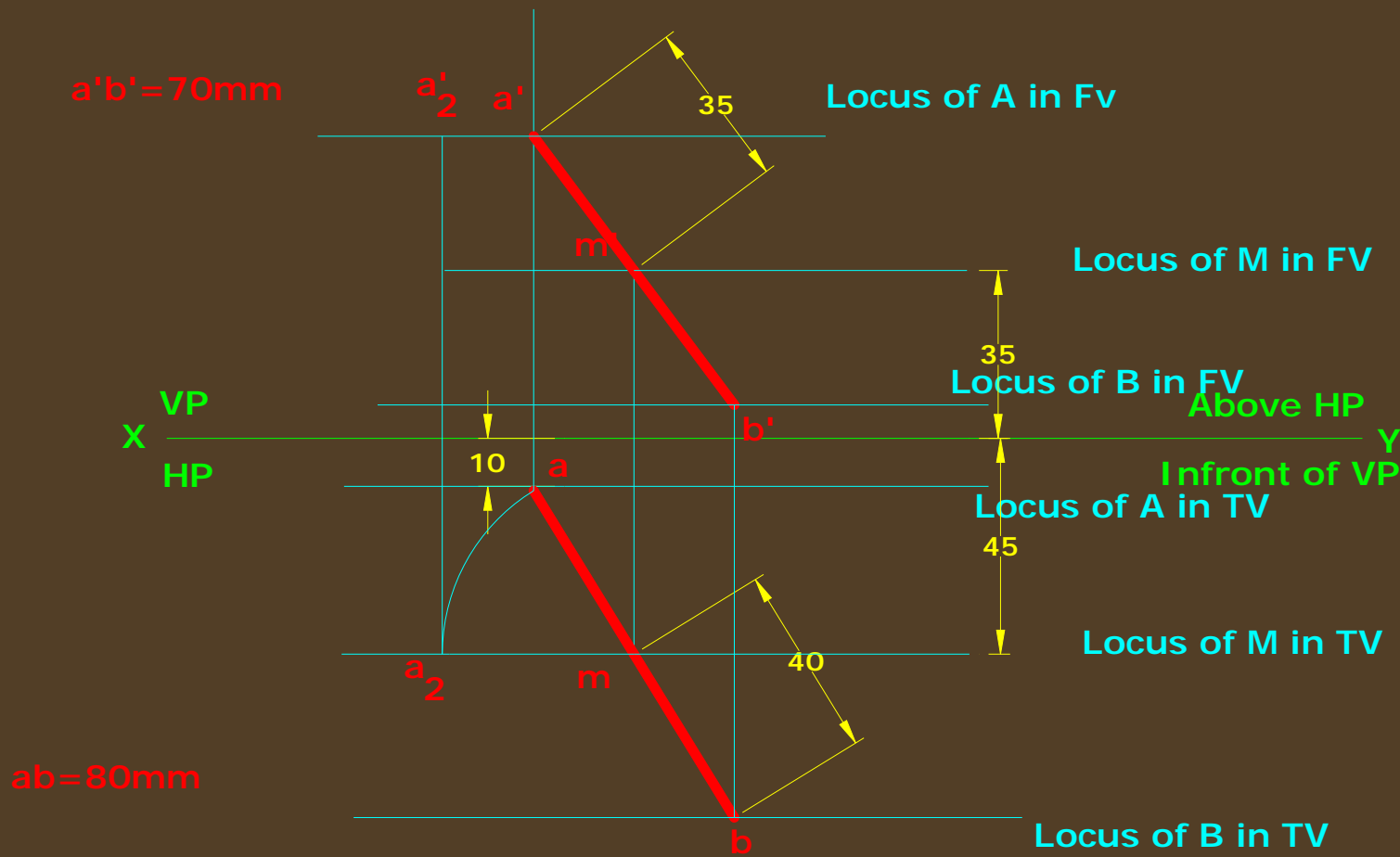

m'

Locus of M in FV

35

VP

Above HP

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

10   a

HP

Infront of VP

Locus of A in TV
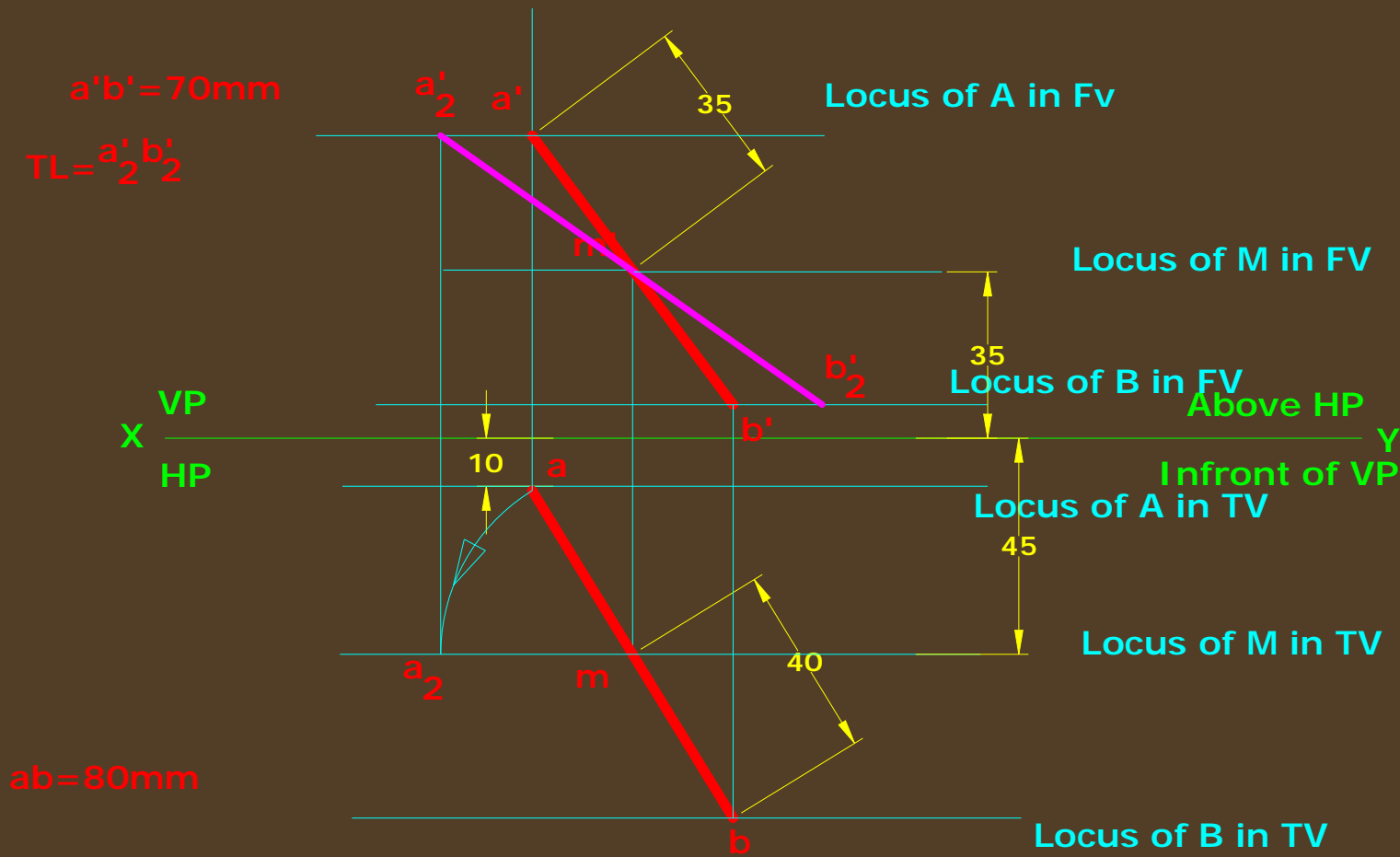
45

Locus of M in TV

m

Line Inclined to both HP & VP- Mid Point Problem

The mid point M of a line AB is 35mm above HP and 45mm in front of VP. The top view of the line is 80mm and the front view measures 70mm. One end A is 10mm in front of and nearer to VP. The other end B is nearer to HP. Draw its projections.   ST RA 26
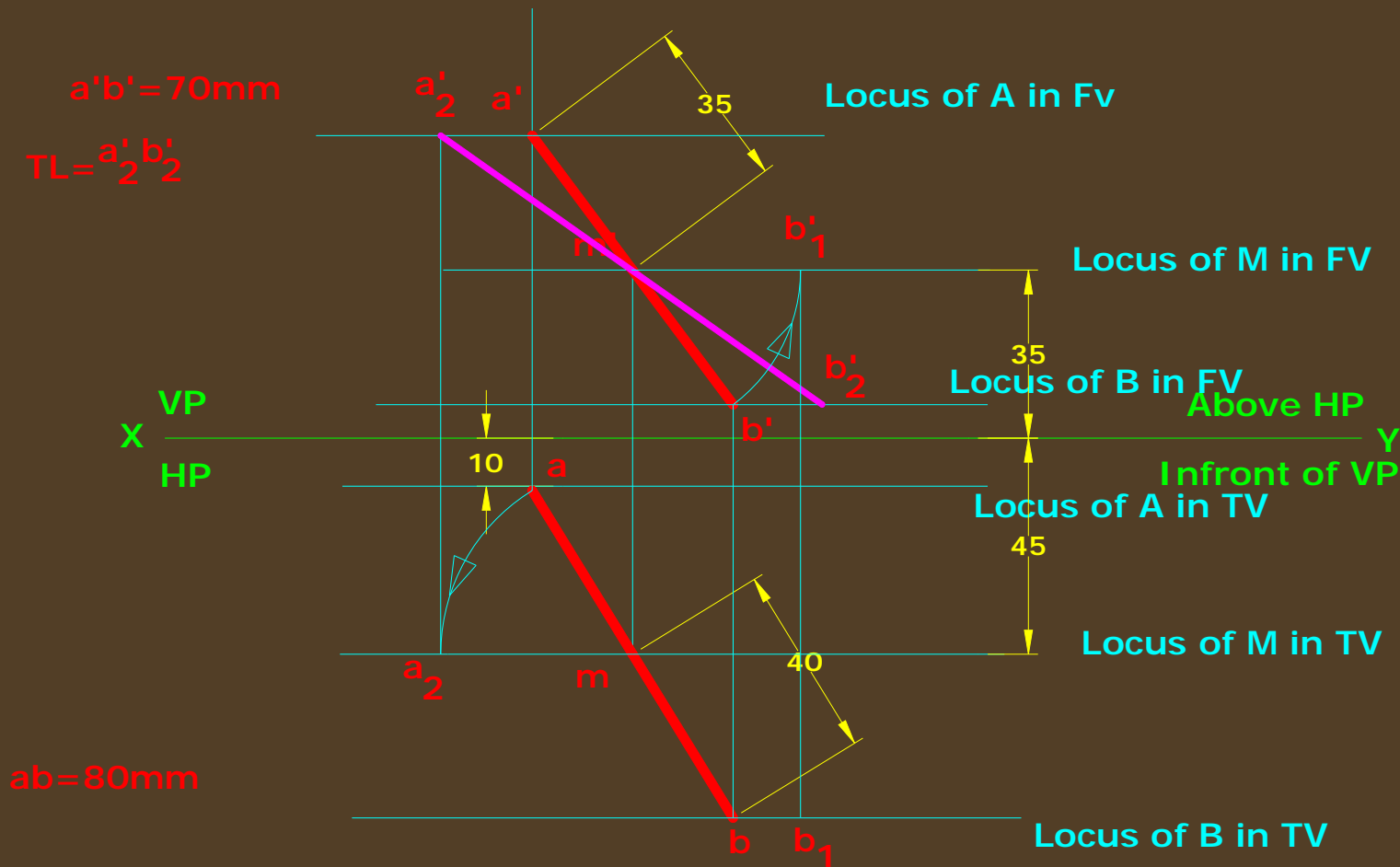
Line Inclined to both HP & VP- Mid Point Problem

The mid point M of a line AB is 35mm above HP and 45mm in front of VP. The top view of the line is 80mm and the front view measures 70mm. One end A is 10mm in front of and nearer to VP. The other end B is nearer to HP. Draw its projections.   ST RA 26

Line Inclined to both HP & VP- Mid Point Problem

The mid point M of a line AB is 35mm above HP and 45mm in front of VP. The top view of the line is 80mm and the front view measures 70mm. One end A is 10mm in front of and nearer to VP. The other end B is nearer to HP. Draw its projections.   ST RA 26
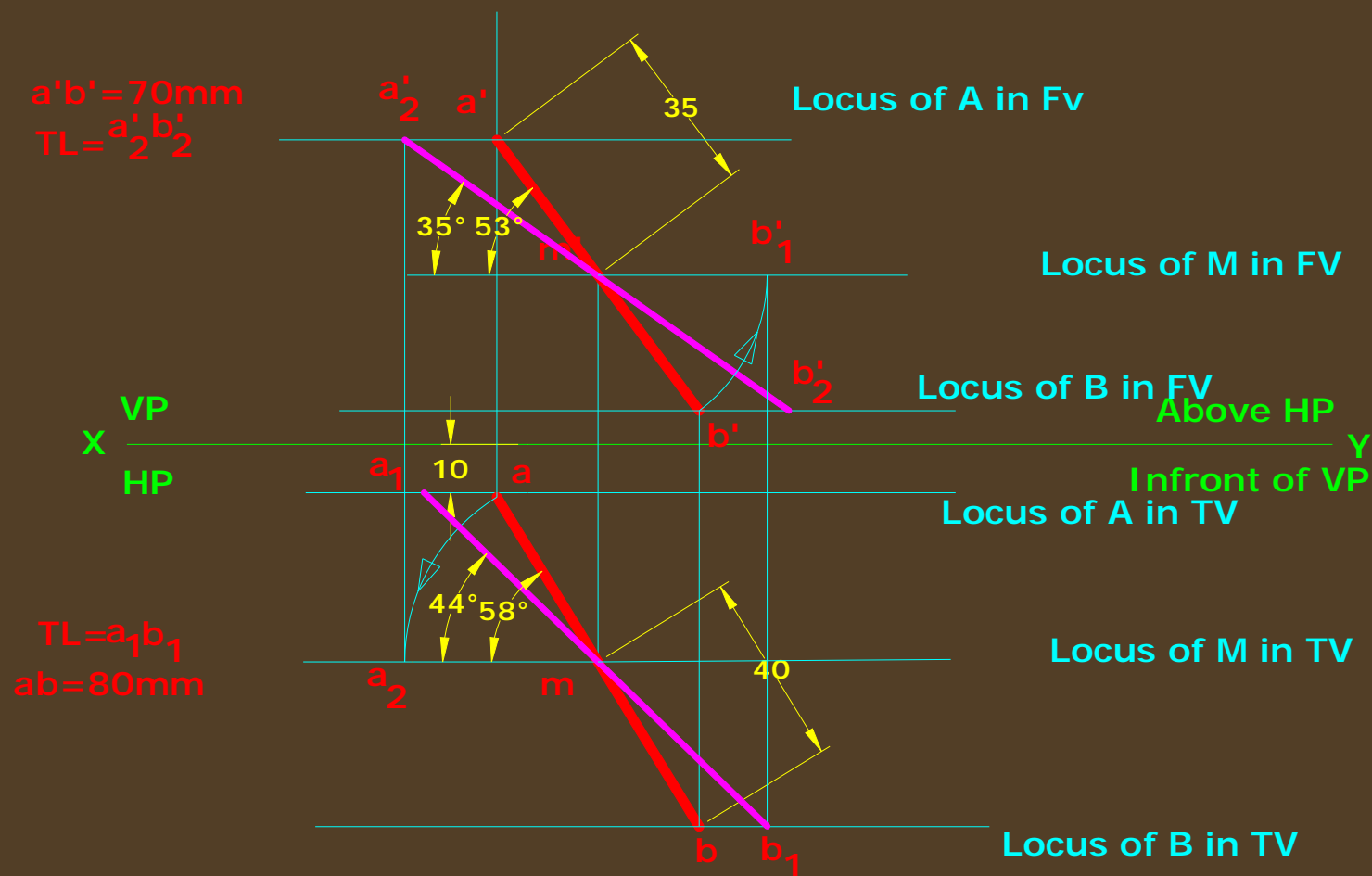
Line Inclined to both HP & VP- Mid Point Problem

The mid point M of a line AB is 35mm above HP and 45mm in front of VP. The top view of the line is 80mm and the front view measures 70mm. One end A is 10mm in front of and nearer to VP. The other end B is nearer to HP. Draw its projections.   ST RA 26

a'b'=70mm

a'

35

Locus of A in Fv

m'

Locus of M in FV

35

Locus of B in FV

Above HP

VP

b'

X ——————————————————————————————— Y

HP

10

a

Infront of VP

Locus of A in TV

45

Locus of M in TV

40

m

Locus of B in TV

ab=80mm

b

Line Inclined to both HP & VP- Mid Point Problem

The mid point M of a line AB is 35mm above HP and 45mm in front of VP. The top view of the line is 80mm and the front view measures 70mm. One end A is 10mm in front of and nearer to VP. The other end B is nearer to HP. Draw its projections.   ST RA 26

a'b'=70mm

a'

35

Locus of A in Fv

m

Locus of M in FV

35

Locus of B in FV

Above HP

VP

X

b'

Y

10

a

HP

Infront of VP

Locus of A in TV

45

Locus of M in TV

40

m

ab=80mm

b

Locus of B in TV

Line Inclined to both HP & VP- Mid Point Problem

The mid point M of a line AB is 35mm above HP and 45mm in front of VP. The top view of the line is 80mm and the front view measures 70mm. One end A is 10mm in front of and nearer to VP. The other end B is nearer to HP. Draw its projections.   ST RA 26

Line Inclined to both HP & VP- Mid Point Problem

The mid point M of a line AB is 35mm above HP and 45mm in front of VP. The top view of the line is 80mm and the front view measures 70mm. One end A is 10mm in front of and nearer to VP. The other end B is nearer to HP. Draw its projections.   ST RA 26

Line Inclined to both HP & VP- Mid Point Problem

The mid point M of a line AB is 35mm above HP and 45mm in front of VP. The top view of the line is 80mm and the front view measures 70mm. One end A is 10mm in front of and nearer to VP. The other end B is nearer to HP. Draw its projections. ST RA 26

Line Inclined to both HP & VP- Mid Point Problem

The mid point M of a line AB is 35mm above HP and 45mm in front of VP. The top view of the line is 80mm and the front view measures 70mm. One end A is 10mm in front of and nearer to VP. The other end B is nearer to HP. Draw its projections.   ST RA 26

a'b'=70mm
TL=$a'_2 b'_2$

a'_2 a'

35   Locus of A in Fv

35° 53°

b'_1

Locus of M in FV

b'_2 Locus of B in FV
Above HP

VP

X ——————————————————————————— Y

HP

a_1 10   a   Infront of VP
Locus of A in TV

b'

TL=$a_1 b_1$
ab=80mm

a_2 m

44° 58°

40   Locus of M in TV

Locus of B in TV

b b_1

Line Inclined to both HP & VP- Rotating Line Method

The line RS 80mm long has its end R 20mm above HP and 30mm in front of VP. The TV and FV are 50mm & 65mm. Draw its projections.   ST RA 31
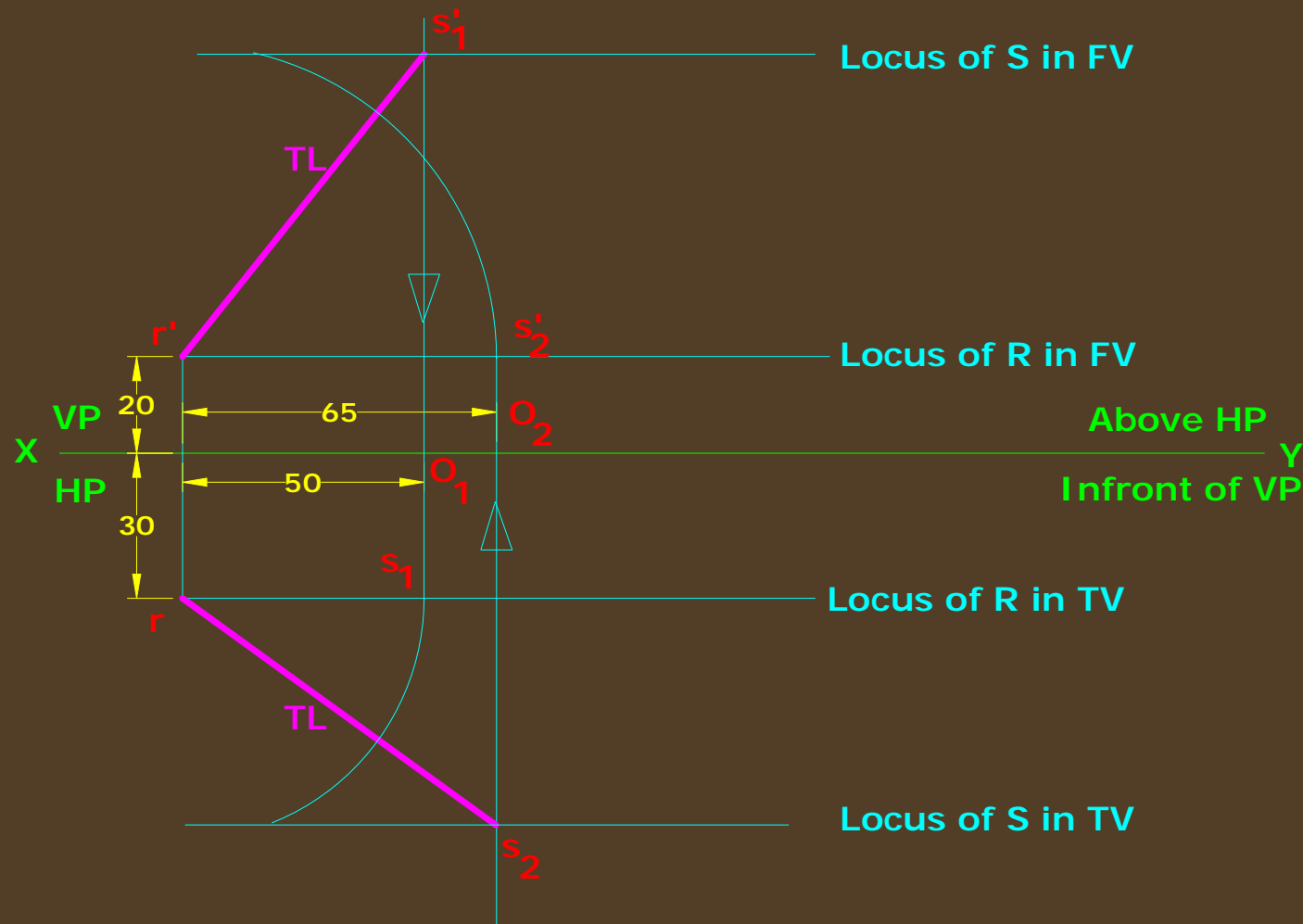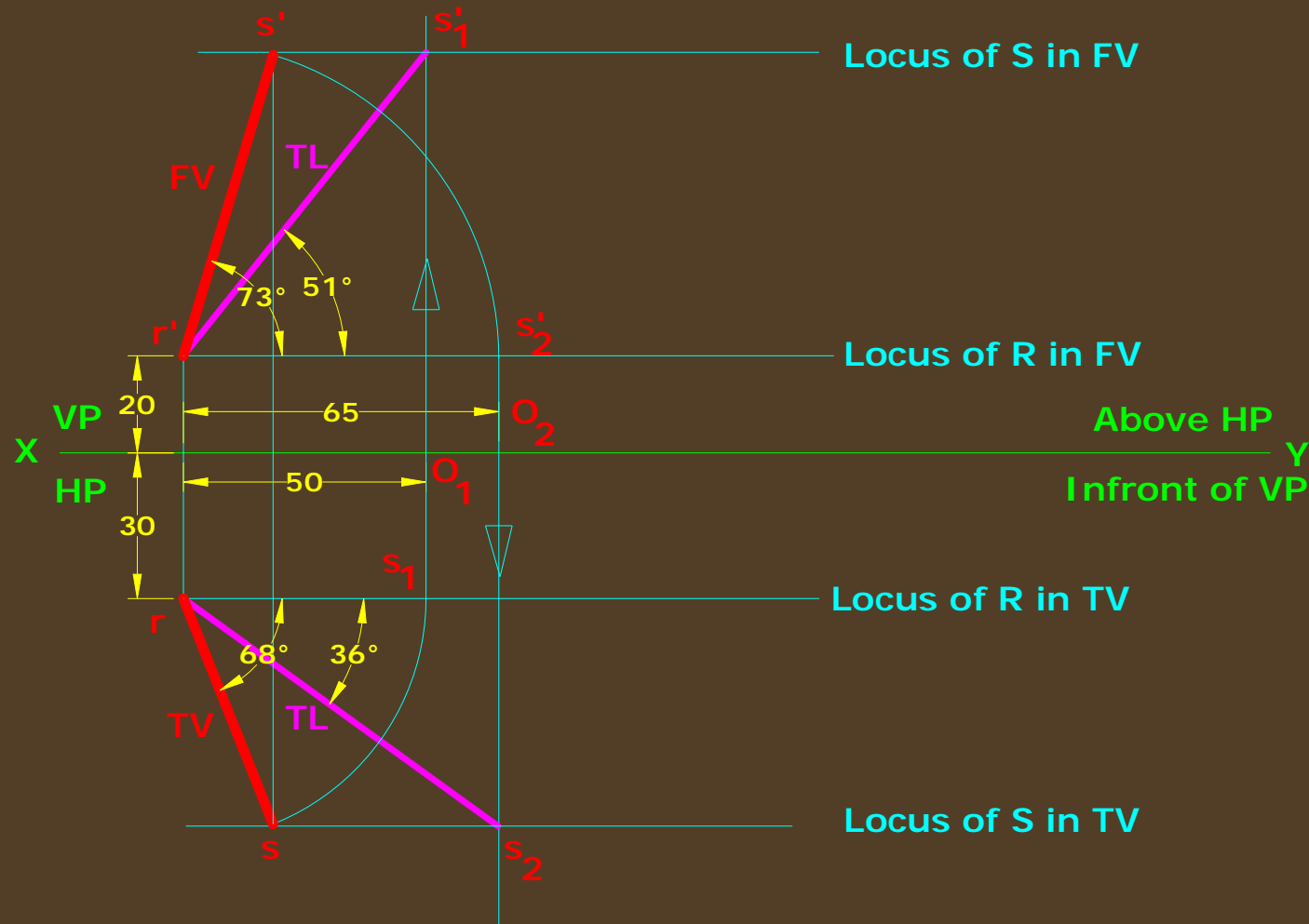
VP

Above HP

X —————————————————————————— Y

HP

Infront of VP

Line Inclined to both HP & VP- Rotating Line Method

The line RS 80mm long has its end R 20mm above HP and 30mm in front of VP. The TV and FV are 50mm & 65mm. Draw its projections.   ST RA 31

r'

VP   20

Above HP

X ——— Y

HP

Infront of VP

30

r

Line Inclined to both HP & VP- Rotating Line Method

The line RS 80mm long has its end R 20mm above HP and 30mm in front of VP. The TV and FV are 50mm & 65mm. Draw its projections.   ST RA 31

Line Inclined to both HP & VP- Rotating Line Method

The line RS 80mm long has its end R 20mm above HP and 30mm in front of VP. The TV and FV are 50mm & 65mm. Draw its projections.   ST RA 31

Line Inclined to both HP & VP- Rotating Line Method

The line RS 80mm long has its end R 20mm above HP and 30mm in front of VP. The TV and FV are 50mm & 65mm. Draw its projections.   ST RA 31

Locus of R in FV

VP 20   65   O₂   Above HP

X   Y

HP   50   O₁   Infront of VP

30

s₁

r   Locus of R in TV

Line Inclined to both HP & VP- Rotating Line Method

The line RS 80mm long has its end R 20mm above HP and 30mm in front of VP. The TV and FV are 50mm & 65mm. Draw its projections.   ST RA 31

Line Inclined to both HP & VP- Rotating Line Method

The line RS 80mm long has its end R 20mm above HP and 30mm in front of VP. The TV and FV are 50mm & 65mm. Draw its projections.   ST RA 31

Line Inclined to both HP & VP- Rotating Line Method

The line RS 80mm long has its end R 20mm above HP and 30mm in front of VP. The TV and FV are 50mm & 65mm. Draw its projections. ST RA 31

Line Inclined to both HP & VP- Rotating Line Method

The line RS 80mm long has its end R 20mm above HP and 30mm in front of VP. The TV and FV are 50mm & 65mm. Draw its projections.   ST RA 31

Line Inclined to both HP & VP- Rotating Line Method

The line RS 80mm long has its end R 20mm above HP and 30mm in front of VP. The TV and FV are 50mm & 65mm. Draw its projections.   ST RA 31
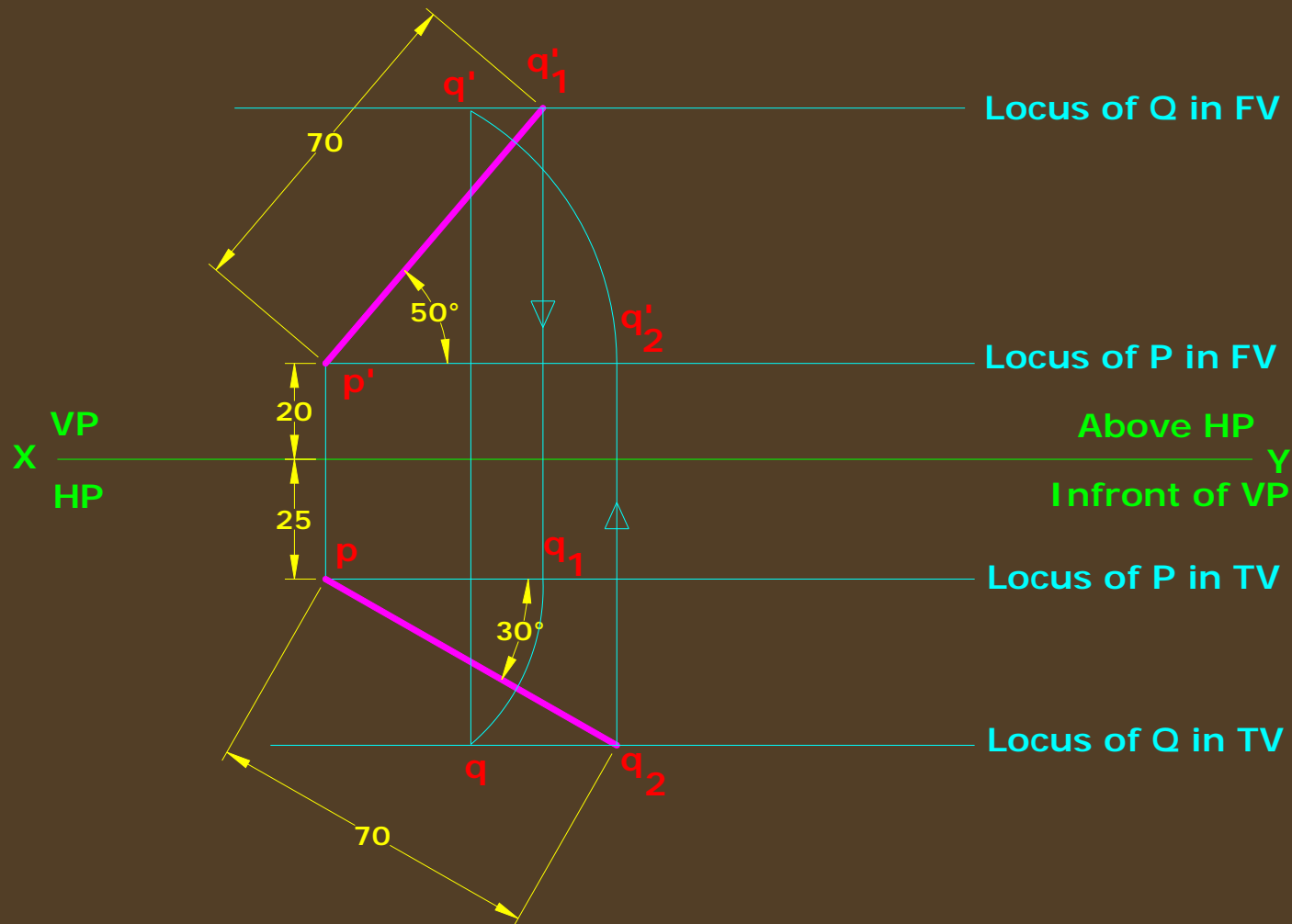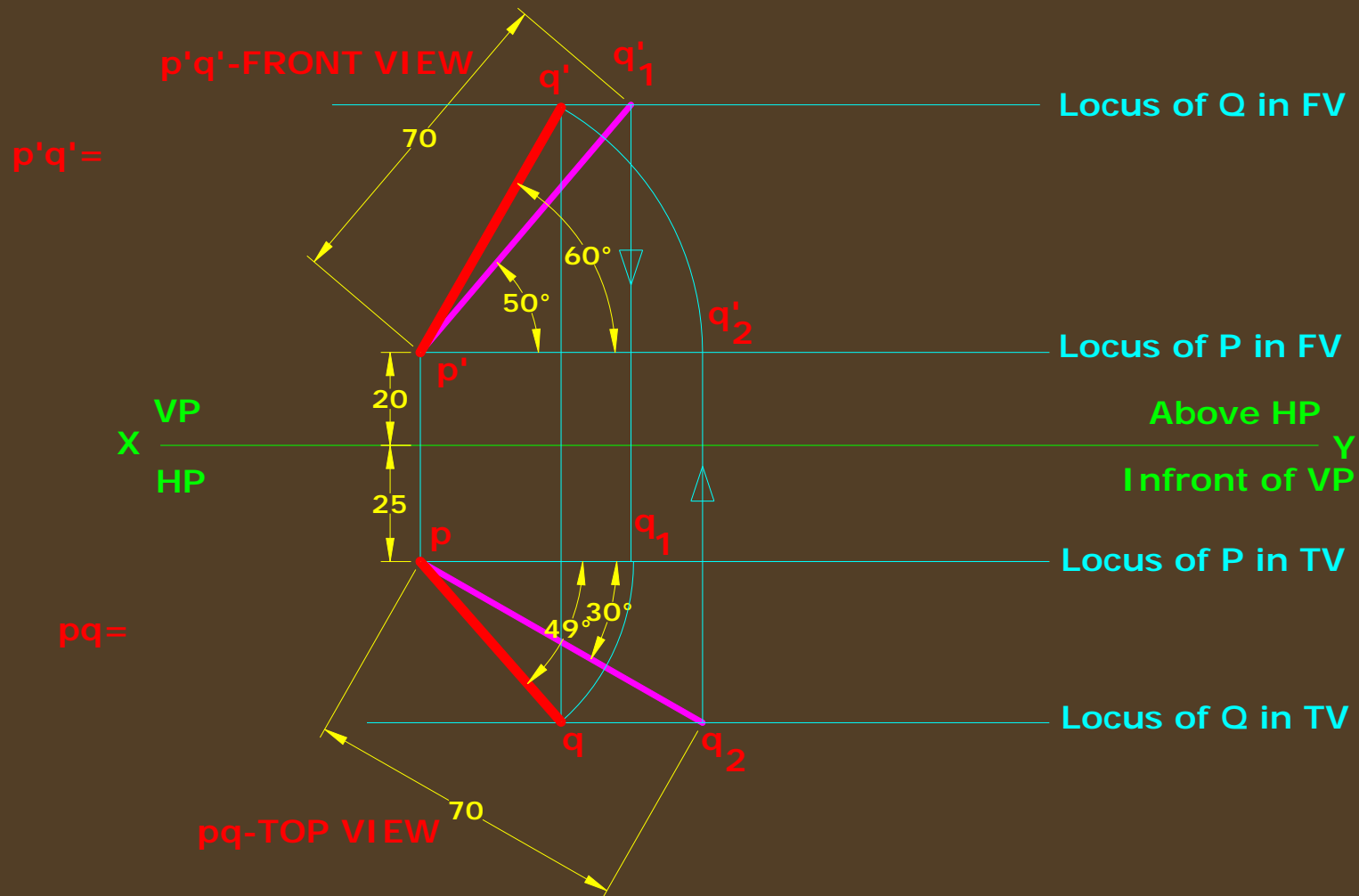
Line Inclined to both HP & VP- Rotating Line Method

One end of a line 70mm long, is 20mm above HP and 25mm in front of VP. The line is inclined at 50^0 to HP and 30^0 to VP. Draw its projections and mark the point A on it, which is 35mm away from one end of the line. J13

VP

Above HP

X ———————————————————————————————————— Y
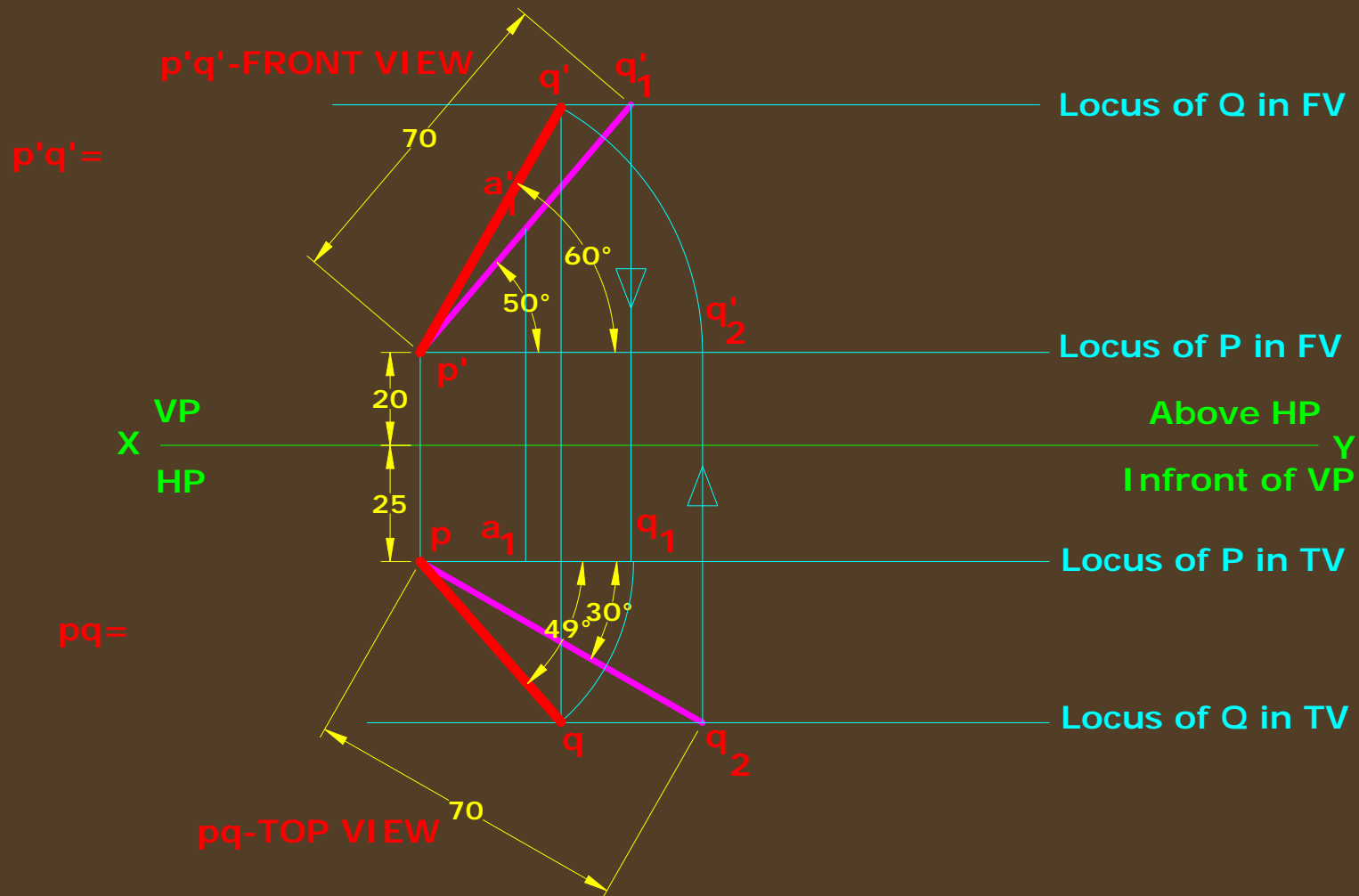
HP

Infront of VP

Line Inclined to both HP & VP- Rotating Line Method

One end of a line 70mm long, is 20mm above HP and 25mm in front of VP. The line is inclined at 50^0 to HP and 30^0 to VP. Draw its projections and mark the point A on it, which is 35mm away from one end of the line. J13

p'

20

VP

X ——————————————————————————————— Y
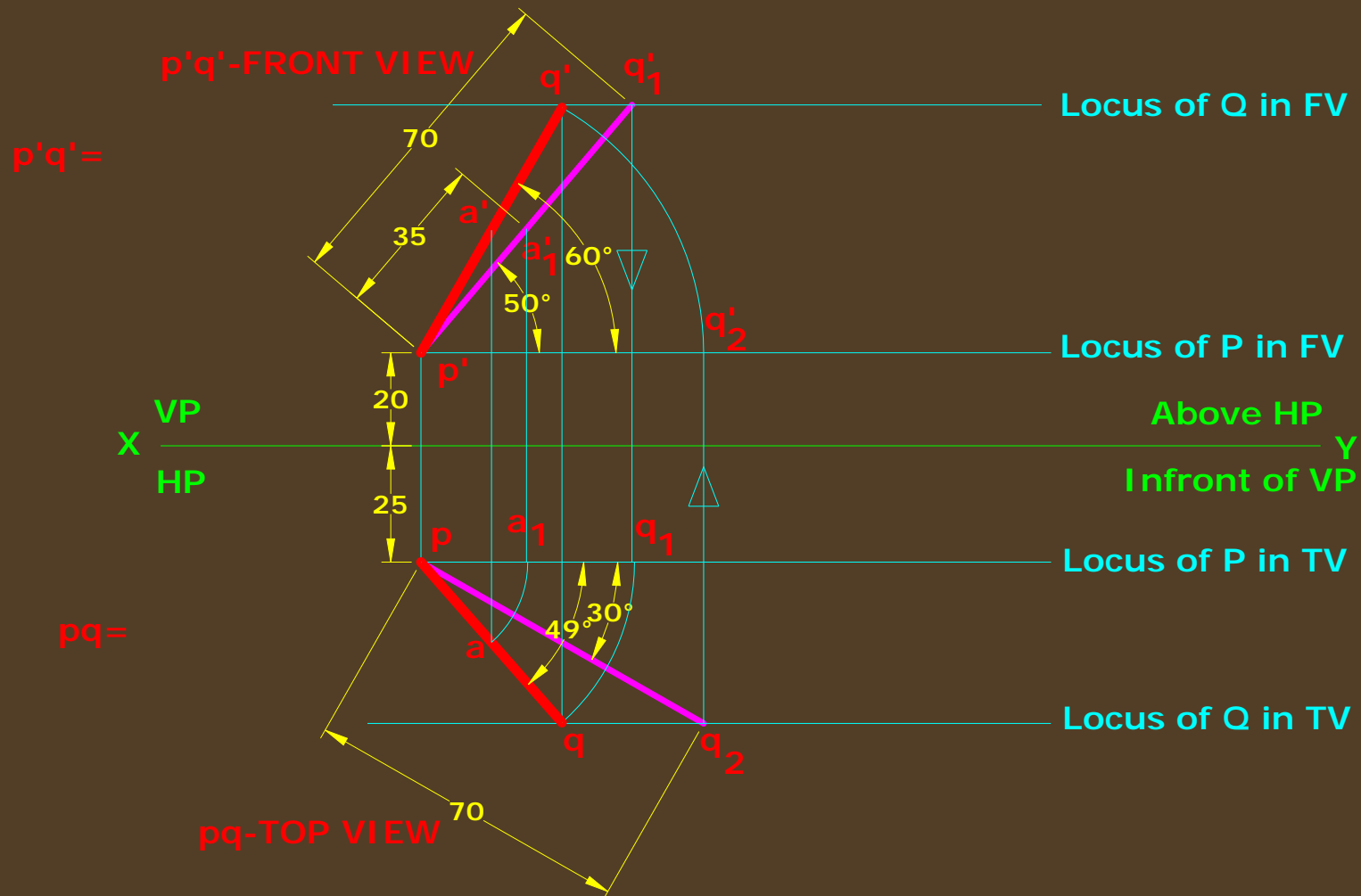
Above HP

HP

Infront of VP

25

p

Line Inclined to both HP & VP- Rotating Line Method

One end of a line 70mm long, is 20mm above HP and 25mm in front of VP. The line is inclined at 50^0 to HP and 30^0 to VP. Draw its projections and mark the point A on it, which is 35mm away from one end of the line. J13

Locus of P in FV

p'

VP

20

Above HP

X ——————————————————————— Y

HP

Infront of VP

25

p

Locus of P in TV

Line Inclined to both HP & VP- Rotating Line Method

One end of a line 70mm long, is 20mm above HP and 25mm in front of VP. The line is inclined at 50^0 to HP and 30^0 to VP. Draw its projections and mark the point A on it, which is 35mm away from one end of the line. J13

Line Inclined to both HP & VP- Rotating Line Method

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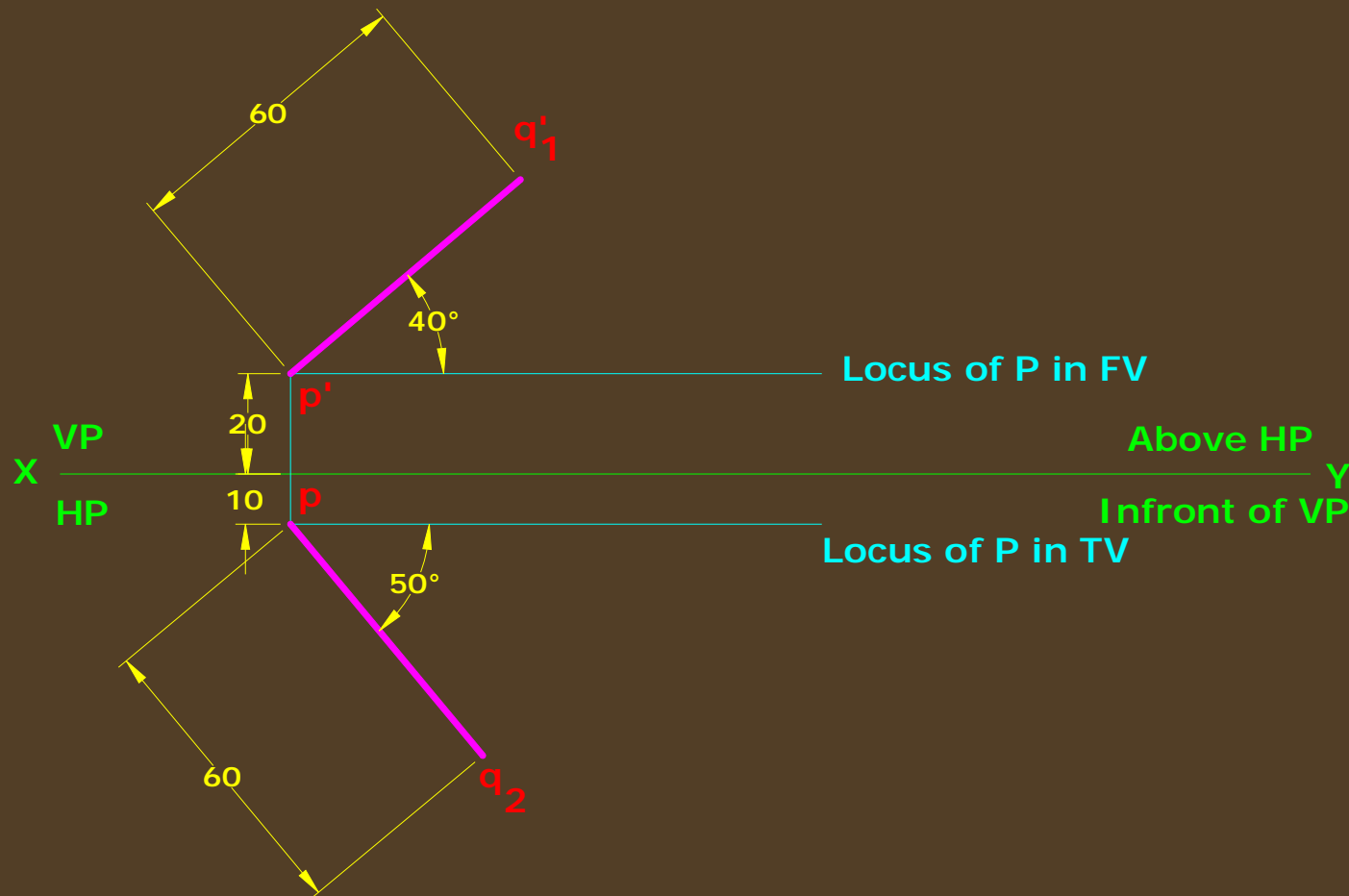
Line Inclined to both HP & VP- Rotating Line Method

One end of a line 70mm long, is 20mm above HP and 25mm in front of VP. The line is inclined at 50⁰ to HP and 30⁰ to VP. Draw its projections and mark the point A on it, which is 35mm away from one end of the line. J13
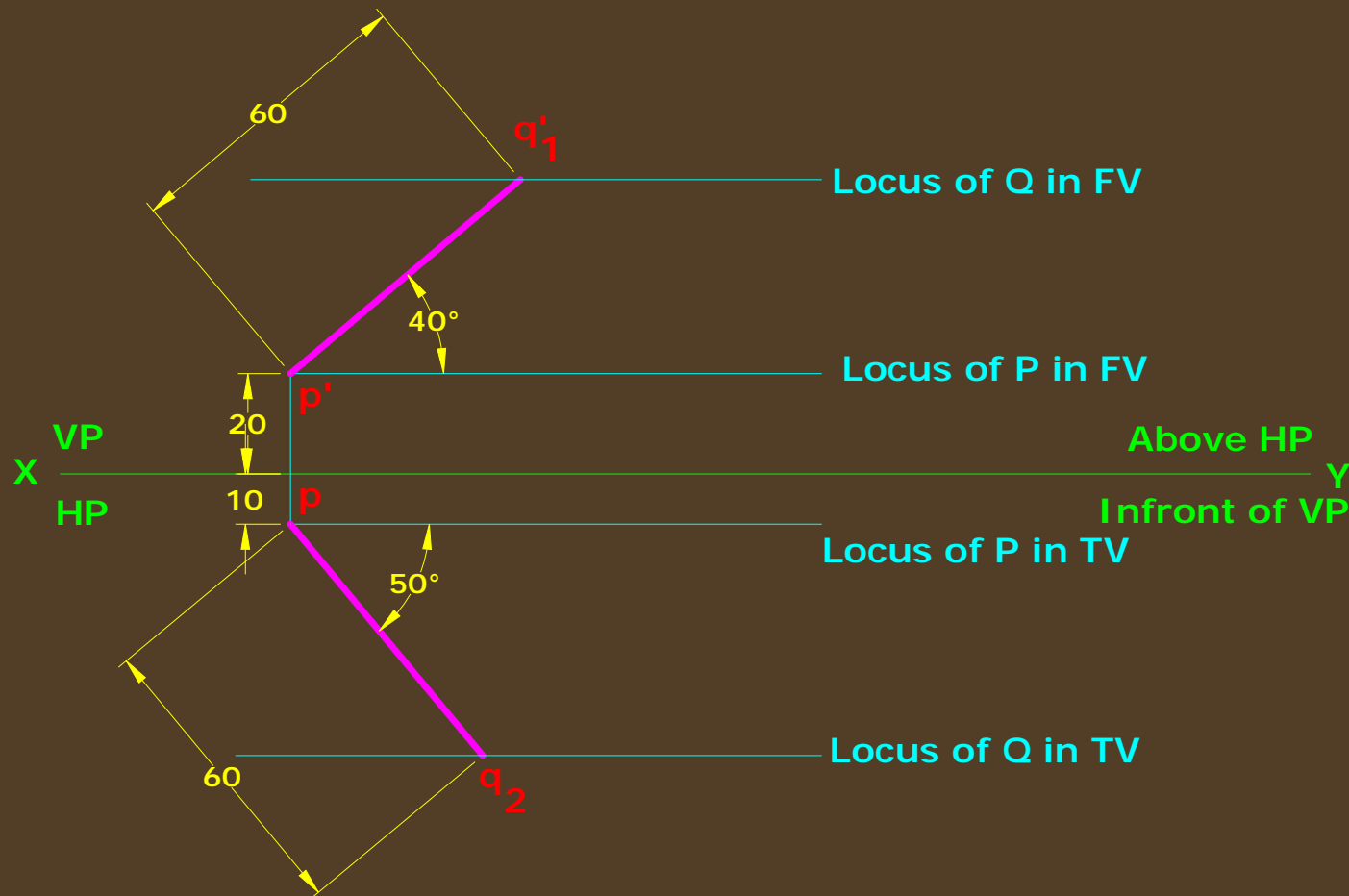
Line Inclined to both HP & VP- Rotating Line Method

One end of a line 70mm long, is 20mm above HP and 25mm in front of VP. The line is inclined at 50^0 to HP and 30^0 to VP. Draw its projections and mark the point A on it, which is 35mm away from one end of the line. J13
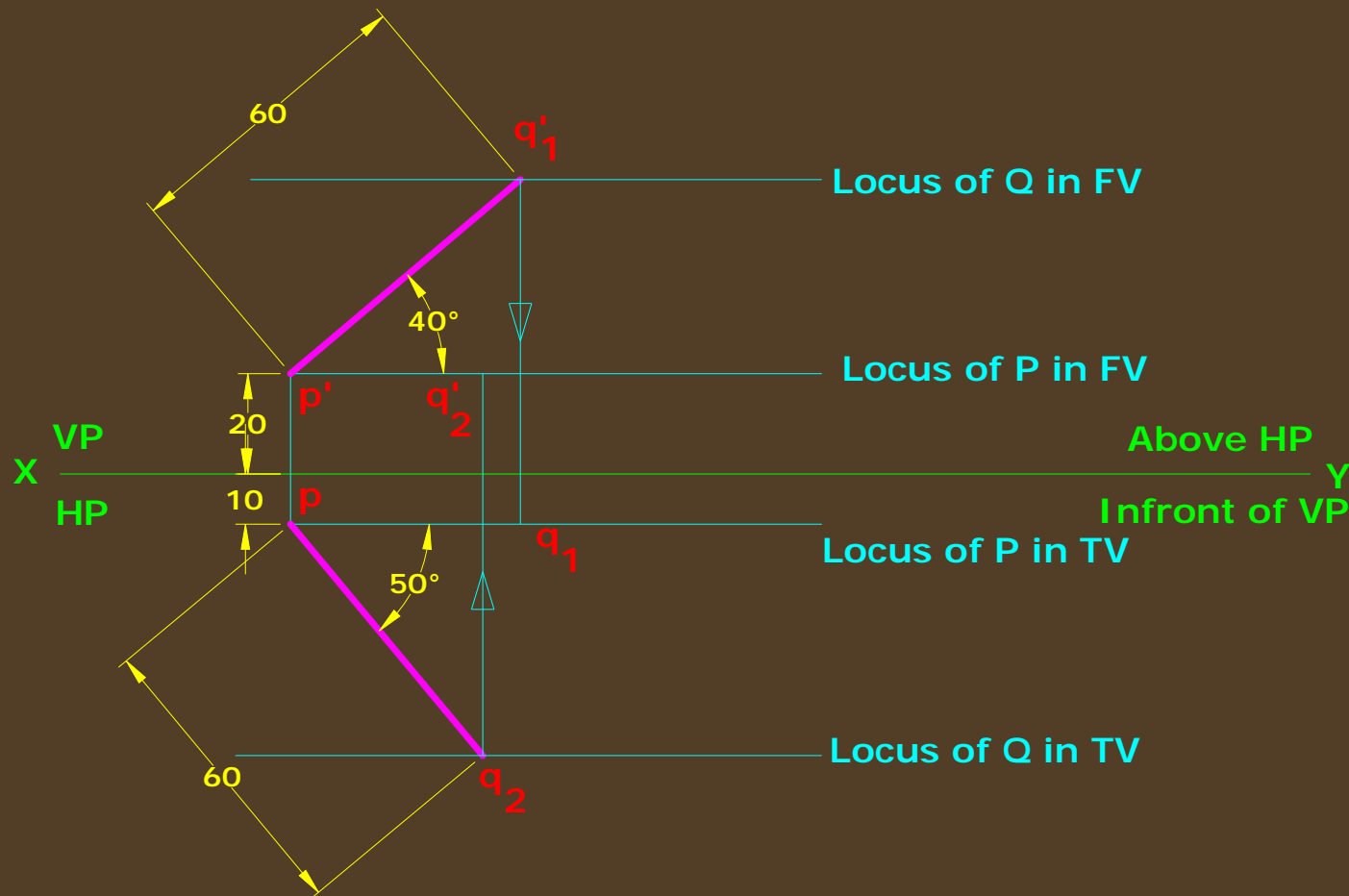
Line Inclined to both HP & VP- Rotating Line Method

One end of a line 70mm long, is 20mm above HP and 25mm in front of VP. The line is inclined at 50⁰ to HP and 30⁰ to VP. Draw its projections and mark the point A on it, which is 35mm away from one end of the line. J13

Line Inclined to both HP & VP- Rotating Line Method

One end of a line 70mm long, is 20mm above HP and 25mm in front of VP. The line is inclined at 50^0 to HP and 30^0 to VP. Draw its projections and mark the point A on it, which is 35mm away from one end of the line. J13

Line Inclined to both HP & VP- Rotating Line Method

One end of a line 70mm long, is 20mm above HP and 25mm in front of VP. The line is inclined at 50⁰ to HP and 30⁰ to VP. Draw its projections and mark the point A on it, which is 35mm away from one end of the line. J13
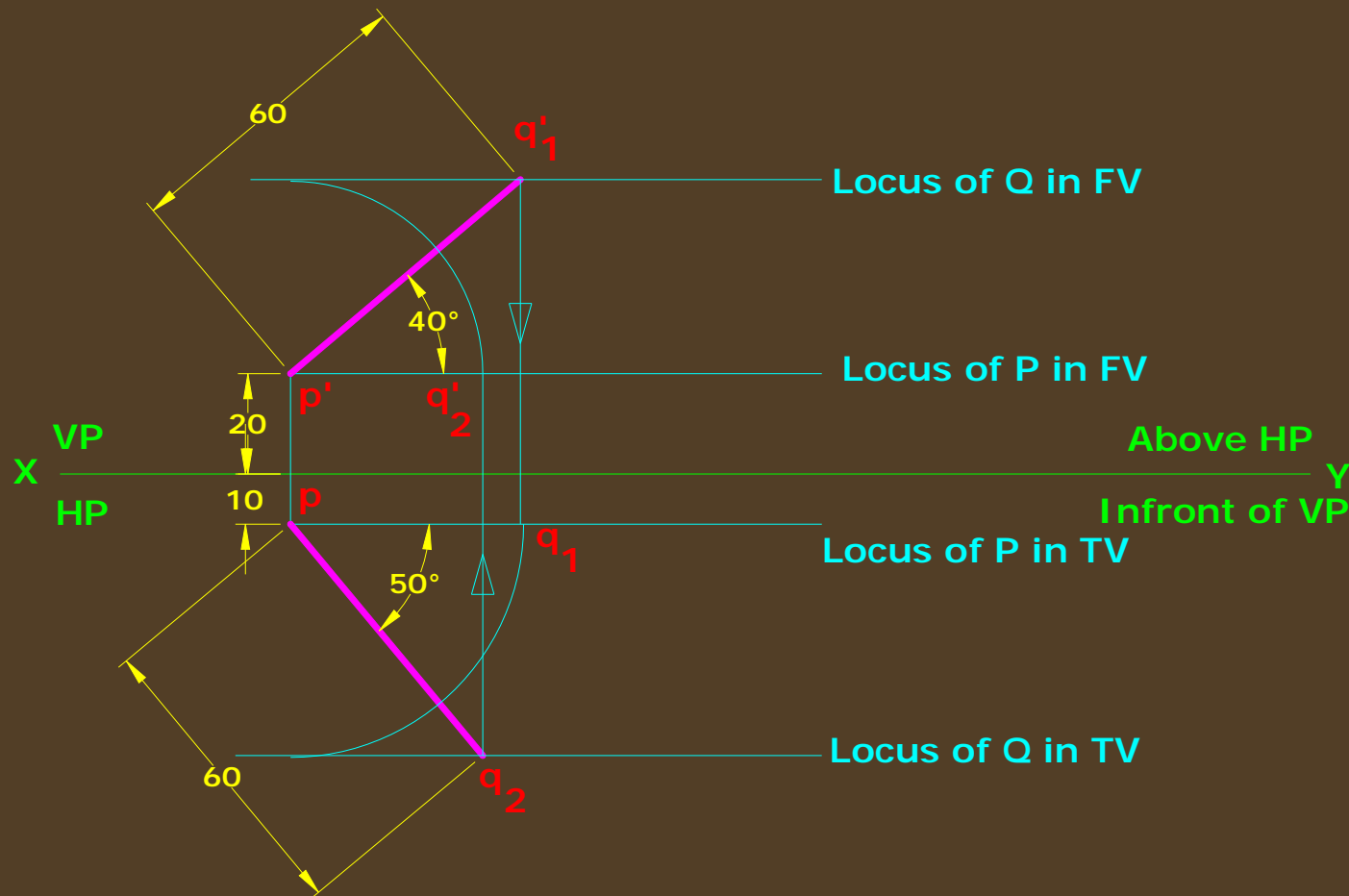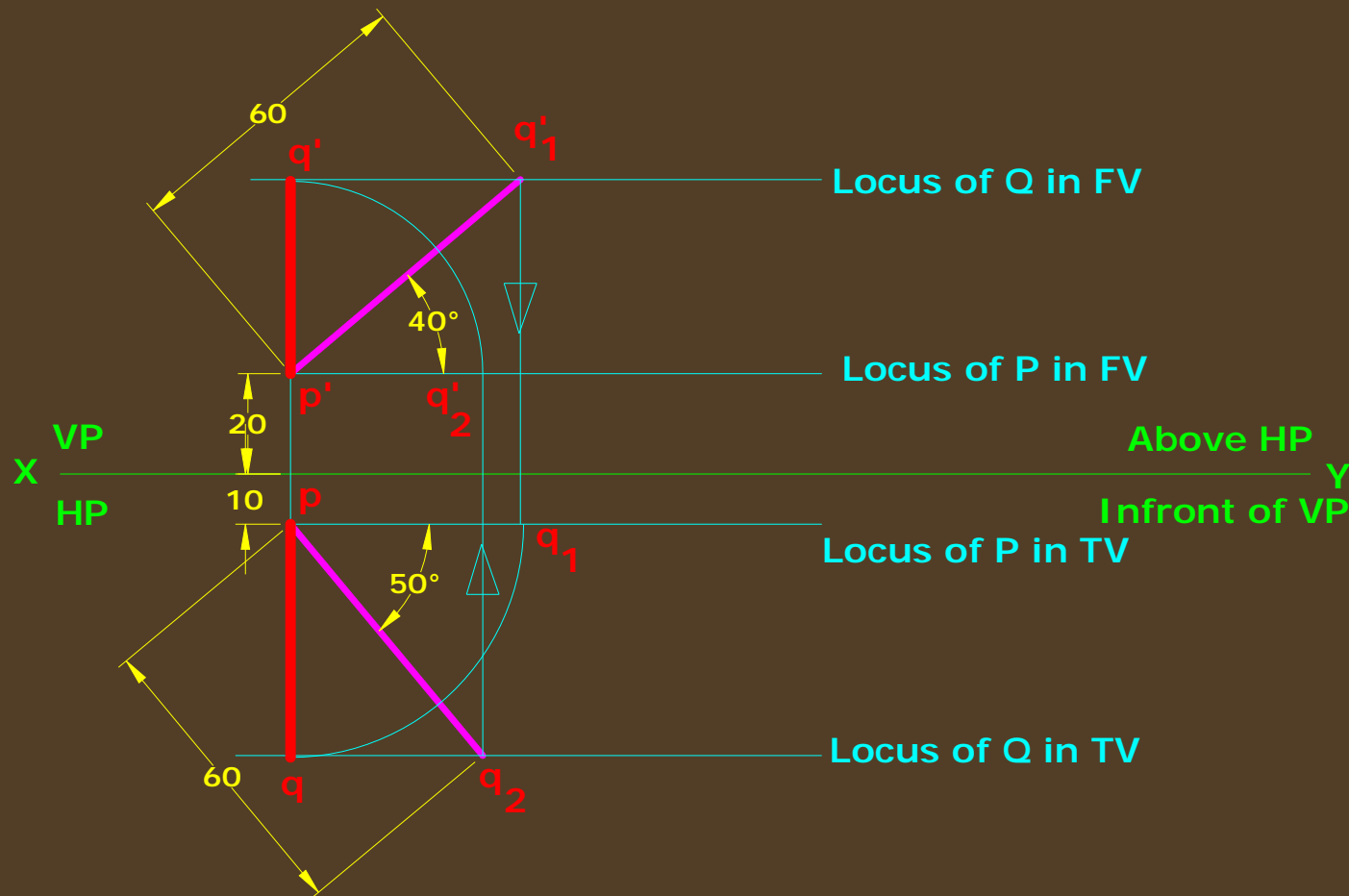
Line Inclined to both HP & VP- Rotating Line Method

A line PQ 60mm long has its end P 20mm above HP and 10mm in front of VP. The line is inclined at 400 to HP and 500 to VP. Draw its projections.   J14

VP

Above HP

X ———————————————————————————— Y

HP

Infront of VP

Line Inclined to both HP & VP- Rotating Line Method

A line PQ 60mm long has its end P 20mm above HP and 10mm in front of VP. The line is inclined at 400 to HP and 500 to VP. Draw its projections.   J14

VP

X ————————————————————————————— Y

HP

20

10

P'

P

Above HP

Infront of VP

Line Inclined to both HP & VP- Rotating Line Method

A line PQ 60mm long has its end P 20mm above HP and 10mm in front of VP. The line is inclined at 400 to HP and 500 to VP. Draw its projections.   J14

Locus of P in FV

VP

20

p'

Above HP

X ————————————————————————————— Y

HP

10

p

Infront of VP

Locus of P in TV

Line Inclined to both HP & VP- Rotating Line Method

A line PQ 60mm long has its end P 20mm above HP and 10mm in front of VP. The line is inclined at 400 to HP and 500 to VP. Draw its projections.   J14

Line Inclined to both HP & VP- Rotating Line Method

A line PQ 60mm long has its end P 20mm above HP and 10mm in front of VP. The line is inclined at 40° to HP and 50° to VP. Draw its projections.   J14

60

q'_1

Locus of Q in FV

40°

Locus of P in FV

p'

20

VP

X

10   p

Above HP

Y

HP

Infront of VP

Locus of P in TV

50°

60

Locus of Q in TV

q_2

Line Inclined to both HP & VP- Rotating Line Method

A line PQ 60mm long has its end P 20mm above HP and 10mm in front of VP. The line is inclined at 400 to HP and 500 to VP. Draw its projections.   J14

Line Inclined to both HP & VP- Rotating Line Method

A line PQ 60mm long has its end P 20mm above HP and 10mm in front of VP. The line is inclined at 400 to HP and 500 to VP. Draw its projections.   J14

Line Inclined to both HP & VP- Rotating Line Method

A line PQ 60mm long has its end P 20mm above HP and 10mm in front of VP. The line is inclined at 400 to HP and 500 to VP. Draw its projections.   J14

Line Inclined to both HP & VP- Rotating Line Method

A straight line PQ is inclined at 45^0 to HP and 35^0 to VP.The point P is on HP and the point Q is on VP. The length of the line is 60mm. Draw its projections.   J15
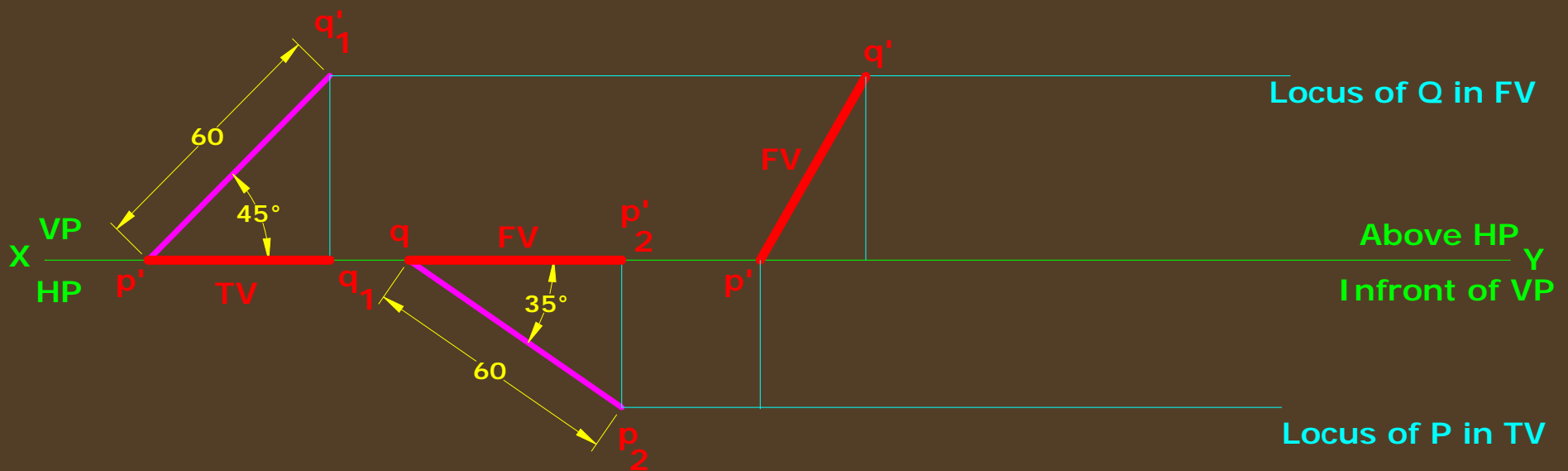
VP

X ——— Y
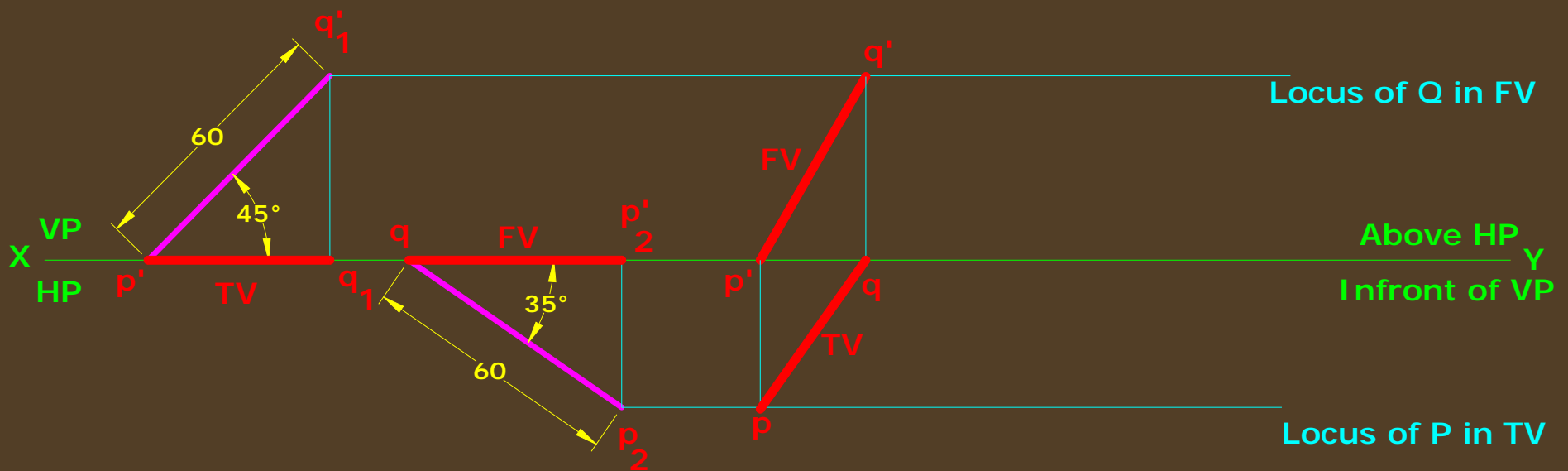
HP

Above HP

Infront of VP

Line Inclined to both HP & VP- Rotating Line Method

A straight line PQ is inclined at 45^0 to HP and 35^0 to VP.The point P is on HP and the point Q is on VP. The length of the line is 60mm. Draw its projections.   J15

q'
1

60

45°

VP

X

Above HP

Y

HP   p'

Infront of VP

Line Inclined to both HP & VP- Rotating Line Method

A straight line PQ is inclined at 45⁰ to HP and 35⁰ to VP.The point P is on HP and the point Q is on VP. The length of the line is 60mm. Draw its projections.   J15

Line Inclined to both HP & VP- Rotating Line Method

A straight line PQ is inclined at 45^0 to HP and 35^0 to VP. The point P is on HP and the point Q is on VP. The length of the line is 60mm. Draw its projections.   J15

Line Inclined to both HP & VP- Rotating Line Method

A straight line PQ is inclined at 45^0 to HP and 35^0 to VP.The point P is on HP and the point Q is on VP. The length of the line is 60mm. Draw its projections.   J15

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A straight line PQ is inclined at 45^0 to HP and 35^0 to VP.The point P is on HP and the point Q is on VP. The length of the line is 60mm. Draw its projections.   J15

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A straight line PQ is inclined at 45⁰ to HP and 35⁰ to VP.The point P is on HP and the point Q is on VP. The length of the line is 60mm. Draw its projections.   J15
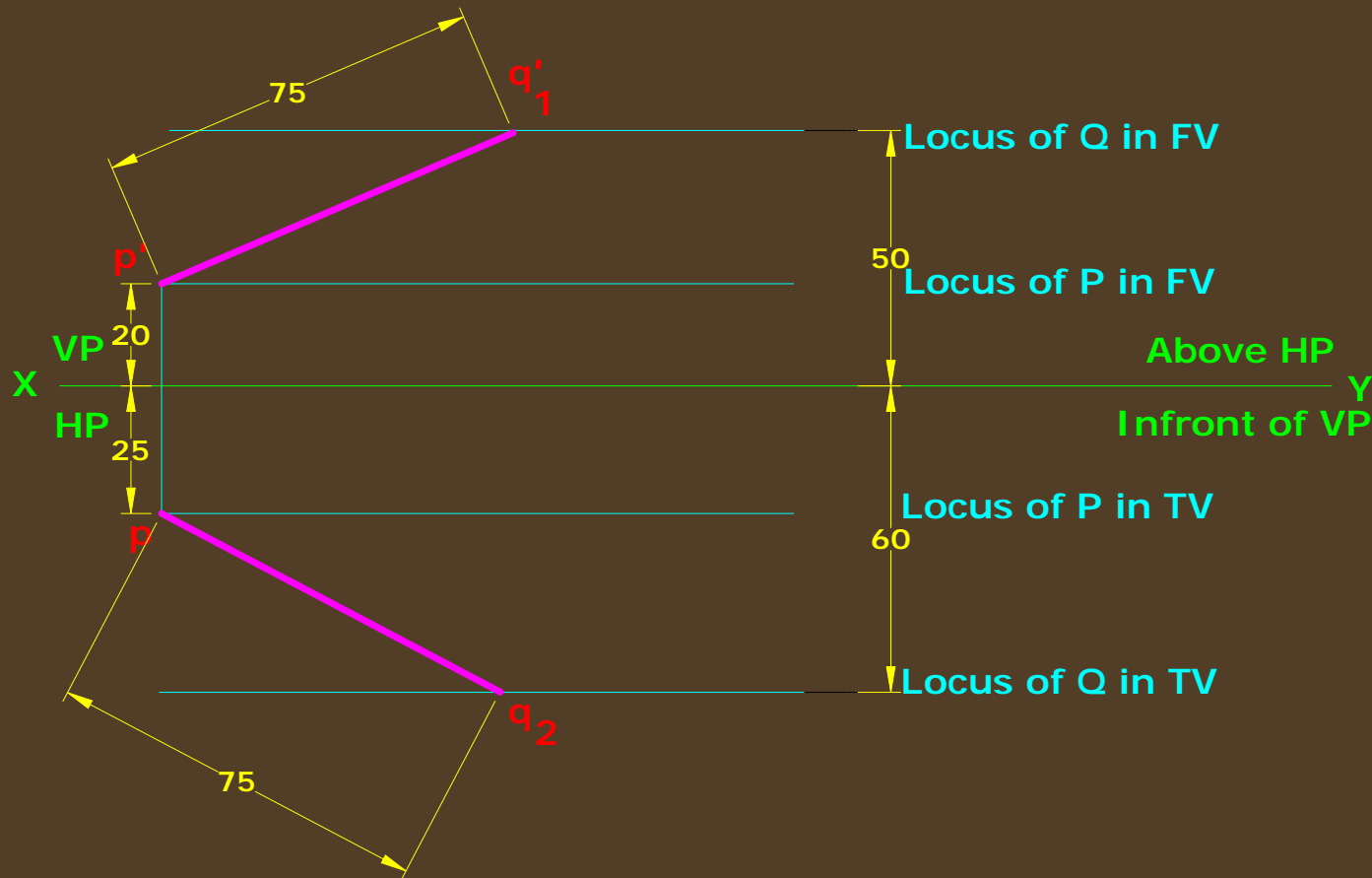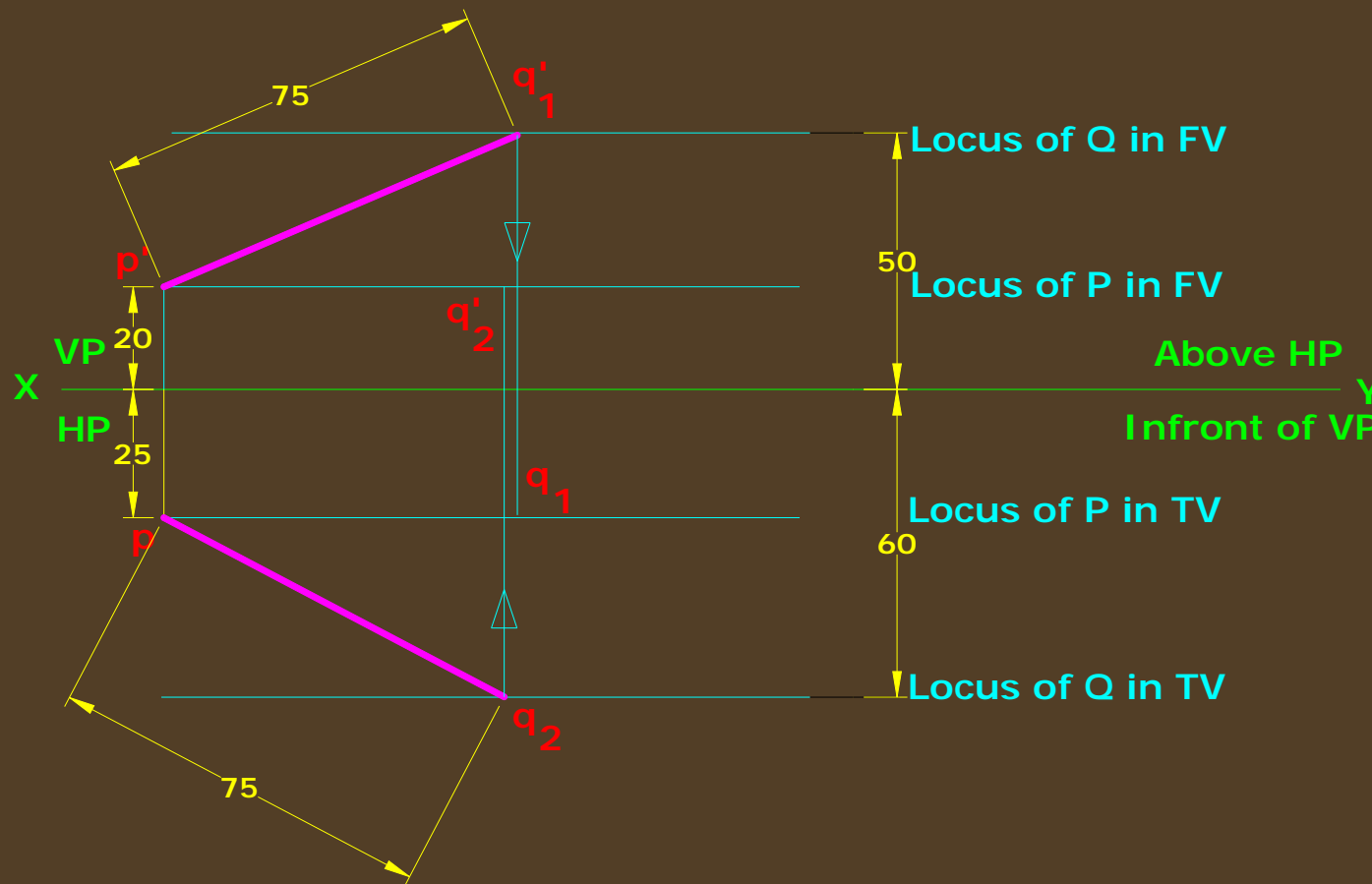
Line Inclined to both HP & VP- Rotating Line Method

A line PQ 75mm long has its end P 20mm above HP and 25mm in front of VP. The end Q is 50mm above HP and 60mm in front of VP. Draw its projection and find its inclination with HP and VP.   J16

VP   Above HP

X ———————————————————————— Y
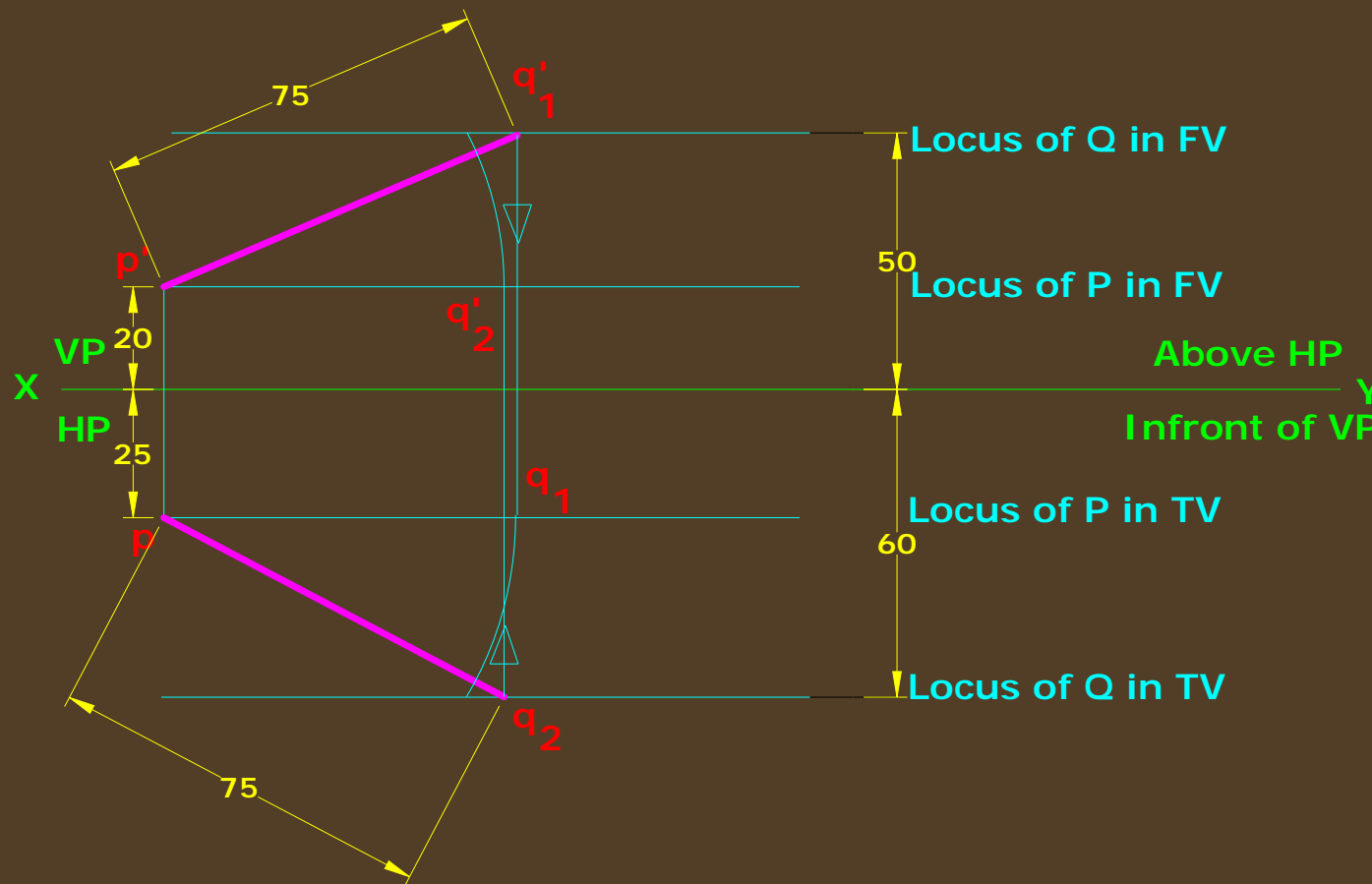
HP   Infront of VP

Line Inclined to both HP & VP- Rotating Line Method

A line PQ 75mm long has its end P 20mm above HP and 25mm in front of VP. The end Q is 50mm above HP and 60mm in front of VP. Draw its projection and find its inclination with HP and VP.   J16

P'

VP 20

X ──────────────────────────────── Y
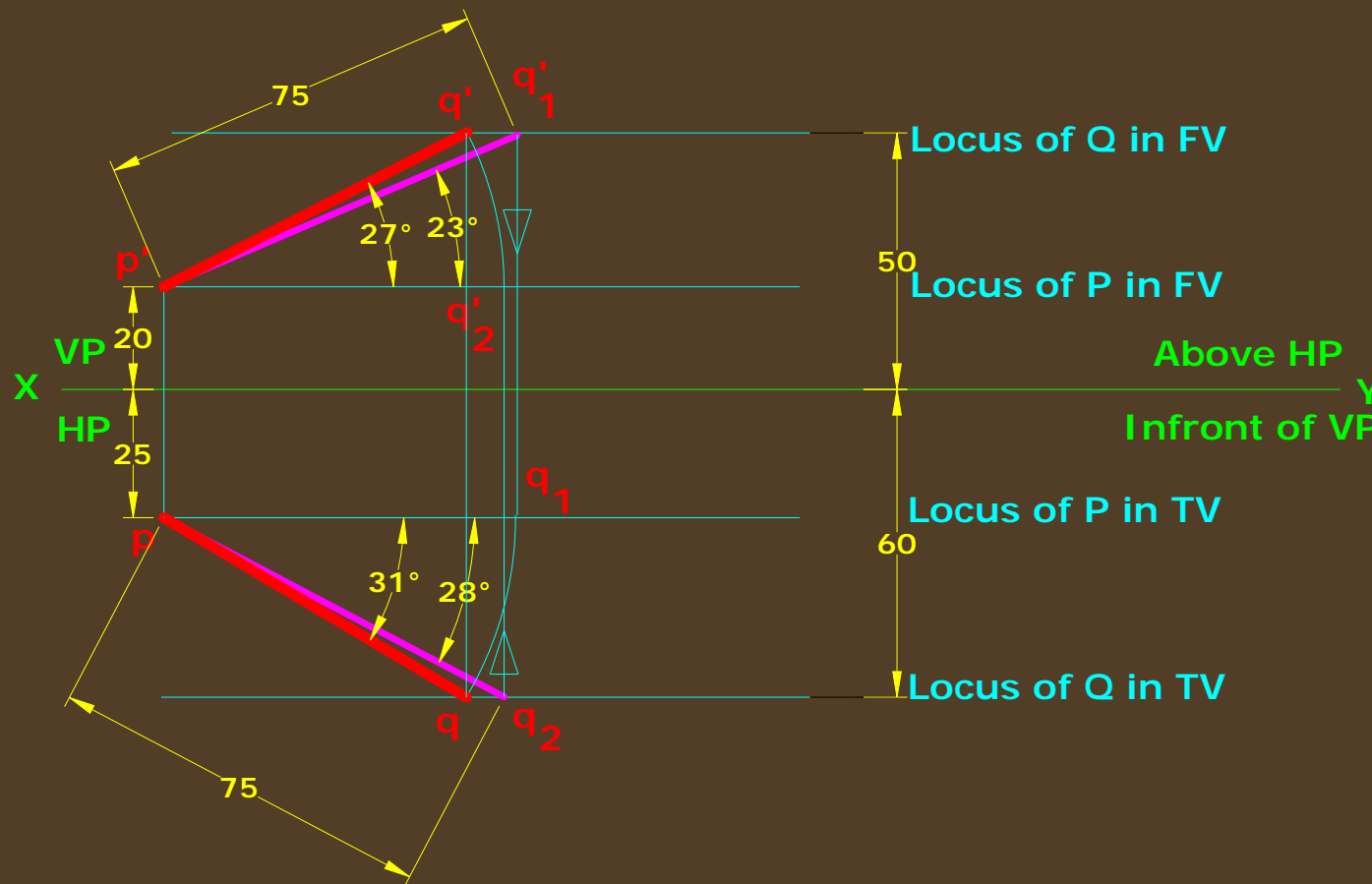
Above HP

Infront of VP

HP

25

P

Line Inclined to both HP & VP- Rotating Line Method

A line PQ 75mm long has its end P 20mm above HP and 25mm in front of VP. The end Q is 50mm above HP and 60mm in front of VP. Draw its projection and find its inclination with HP and VP.   J16

P'

VP 20

X   Y

Locus of P in FV

Above HP

HP

Infront of VP

25

Locus of P in TV

P

Line Inclined to both HP & VP- Rotating Line Method

A line PQ 75mm long has its end P 20mm above HP and 25mm in front of VP. The end Q is 50mm above HP and 60mm in front of VP. Draw its projection and find its inclination with HP and VP.   J16
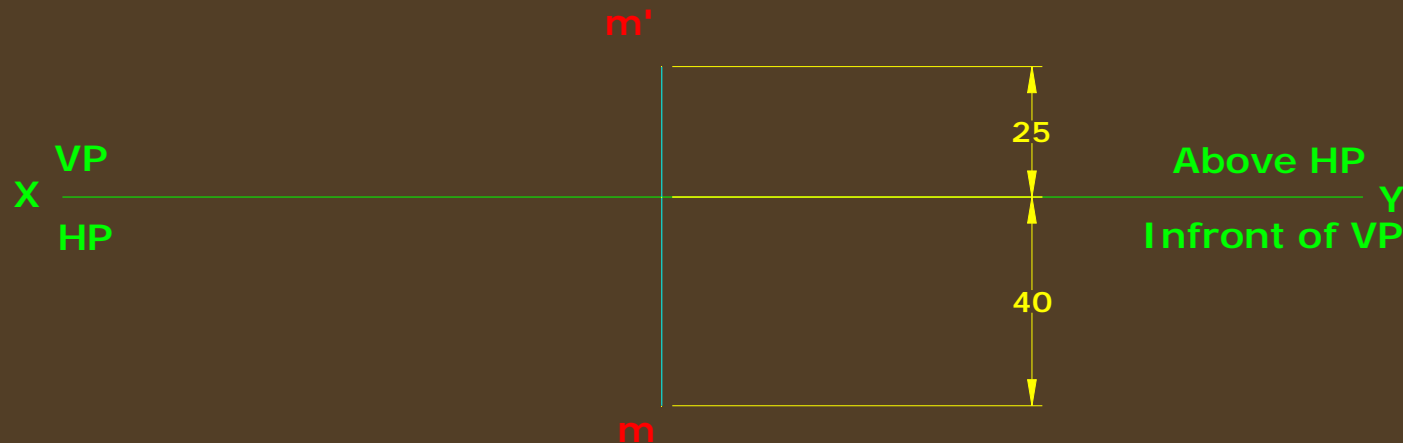
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Line Inclined to both HP & VP- Rotating Line Method

A line PQ 75mm long has its end P 20mm above HP and 25mm in front of VP. The end Q is 50mm above HP and 60mm in front of VP. Draw its projection and find its inclination with HP and VP.   J16

Line Inclined to both HP & VP- Rotating Line Method

A line PQ 75mm long has its end P 20mm above HP and 25mm in front of VP. The end Q is 50mm above HP and 60mm in front of VP. Draw its projection and find its inclination with HP and VP. J16

Line Inclined to both HP & VP- Rotating Line Method

A line PQ 75mm long has its end P 20mm above HP and 25mm in front of VP. The end Q is 50mm above HP and 60mm in front of VP. Draw its projection and find its inclination with HP and VP.   J16
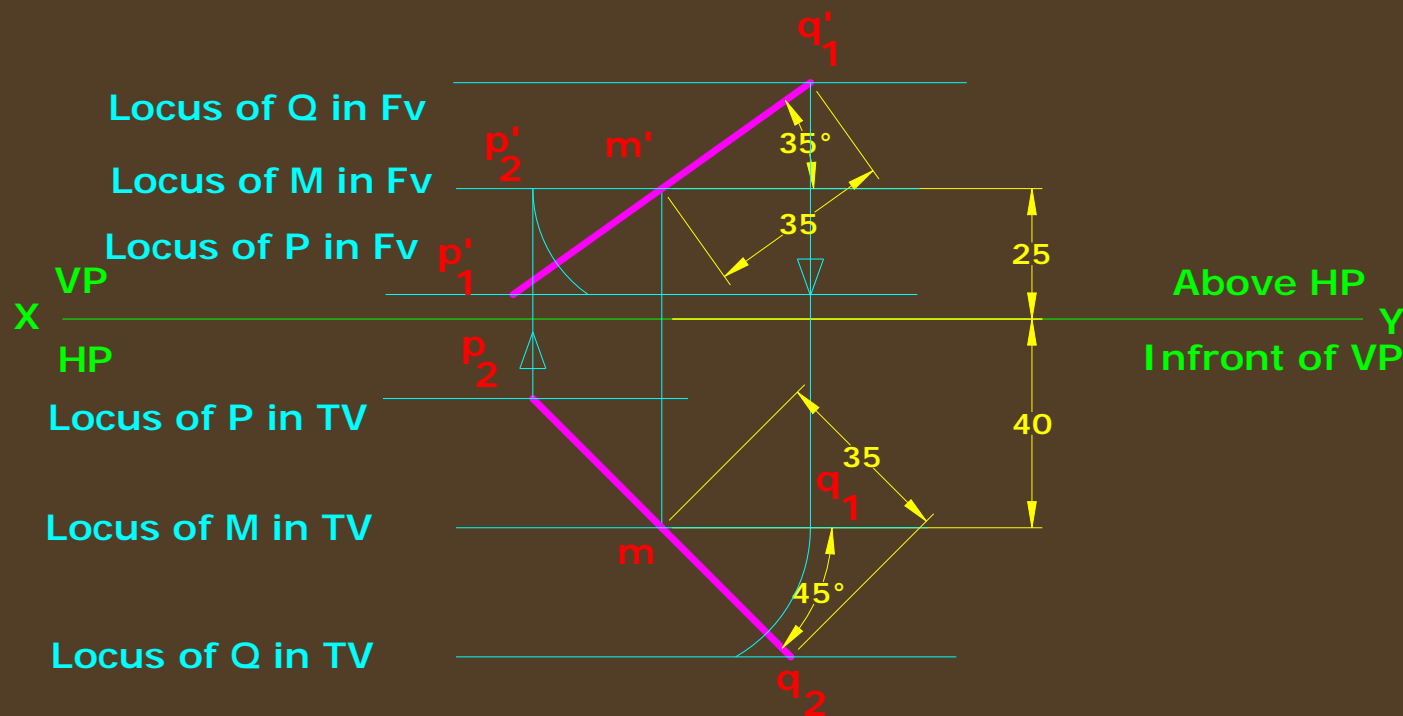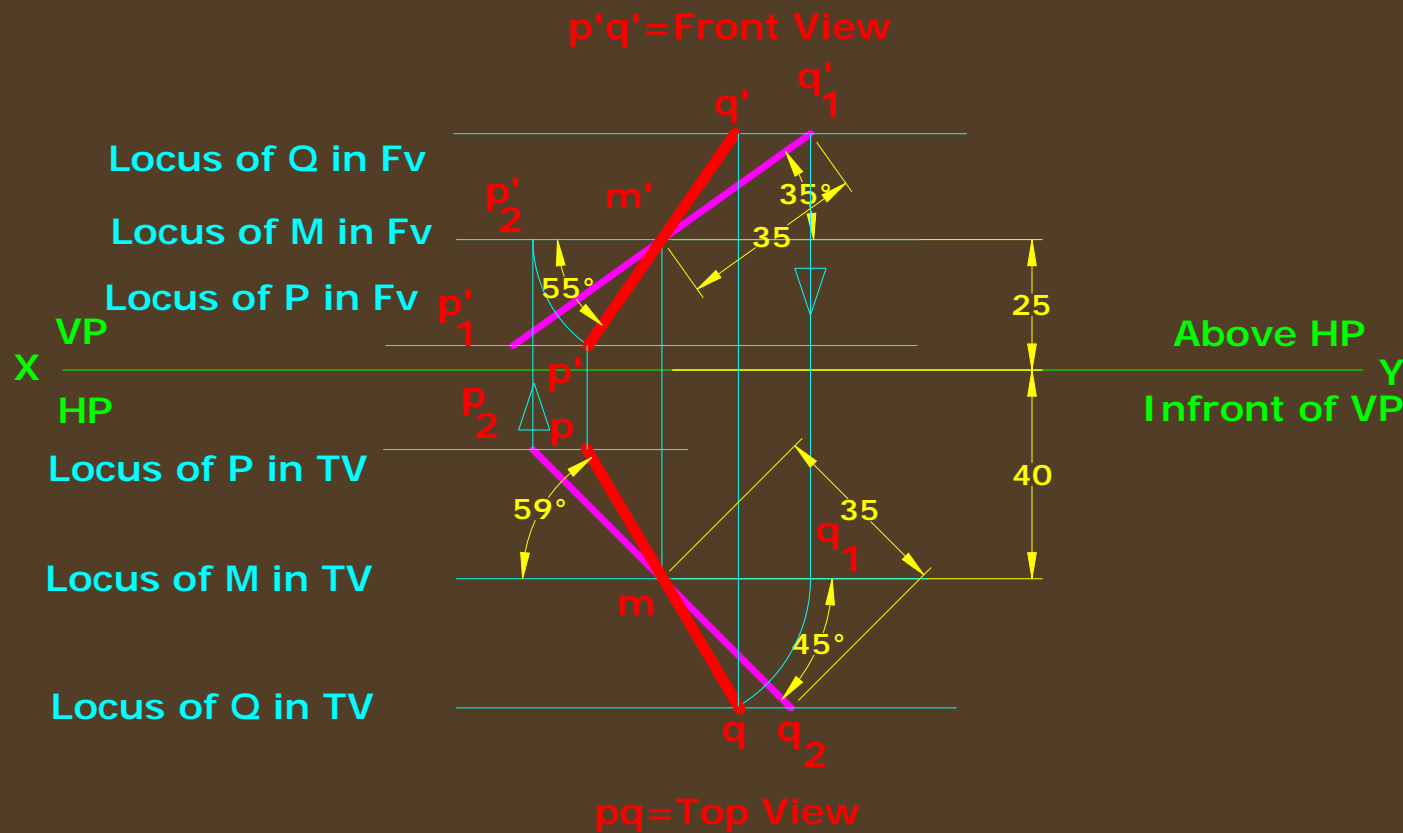
Line Inclined to both HP & VP- Rotating Line Method

The mid point of a line PQ 70mm long, is 25mm above HP and 40mm in front of VP. It is inclined at 350 to HP and 450 to VP. Draw its projections.   J21

VP

Above HP

X ————————————————————————————————— Y

HP

Infront of VP

Line Inclined to both HP & VP- Rotating Line Method

The mid point of a line PQ 70mm long, is 25mm above HP and 40mm in front of VP. It is inclined at 350 to HP and 450 to VP. Draw its projections.   J21

m'

VP

X ——————————————————————————— Y

HP

Above HP

Infront of VP

25

40

m

Line Inclined to both HP & VP- Rotating Line Method

The mid point of a line PQ 70mm long, is 25mm above HP and 40mm in front of VP. It is inclined at 350 to HP and 450 to VP. Draw its projections.   J21
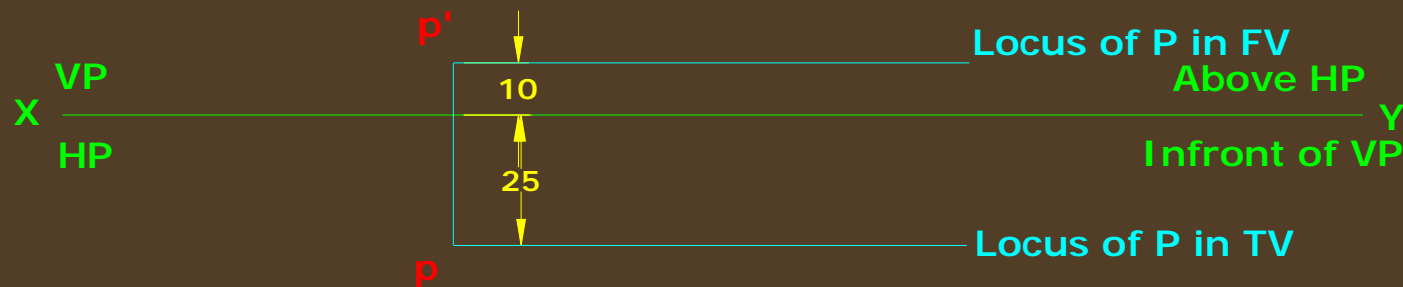
Line Inclined to both HP & VP- Rotating Line Method

The mid point of a line PQ 70mm long, is 25mm above HP and 40mm in front of VP. It is inclined at 350 to HP and 450 to VP. Draw its projections.   J21
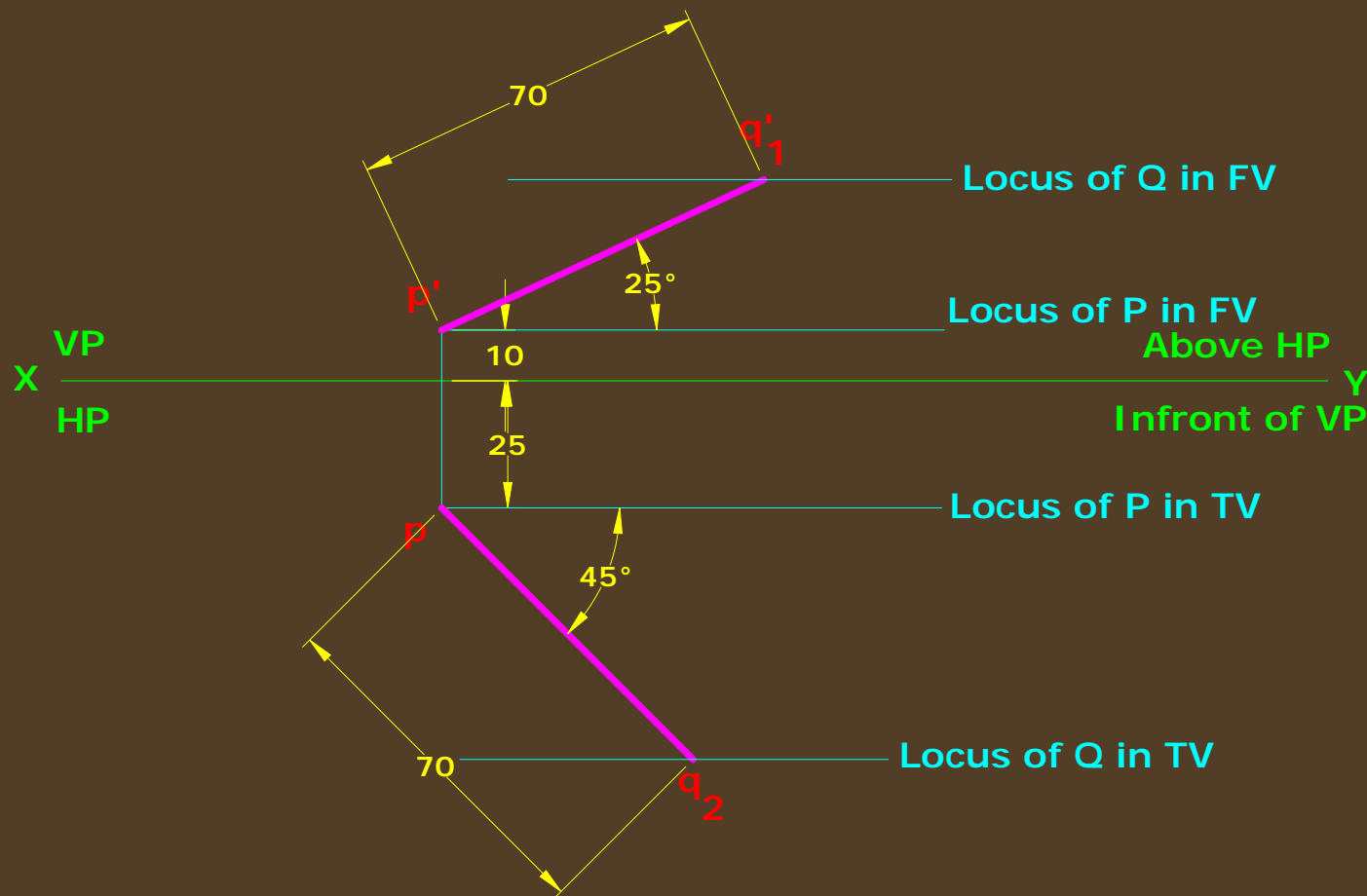
Line Inclined to both HP & VP- Rotating Line Method

The mid point of a line PQ 70mm long, is 25mm above HP and 40mm in front of VP. It is inclined at 350 to HP and 450 to VP. Draw its projections.   J21

Line Inclined to both HP & VP- Rotating Line Method

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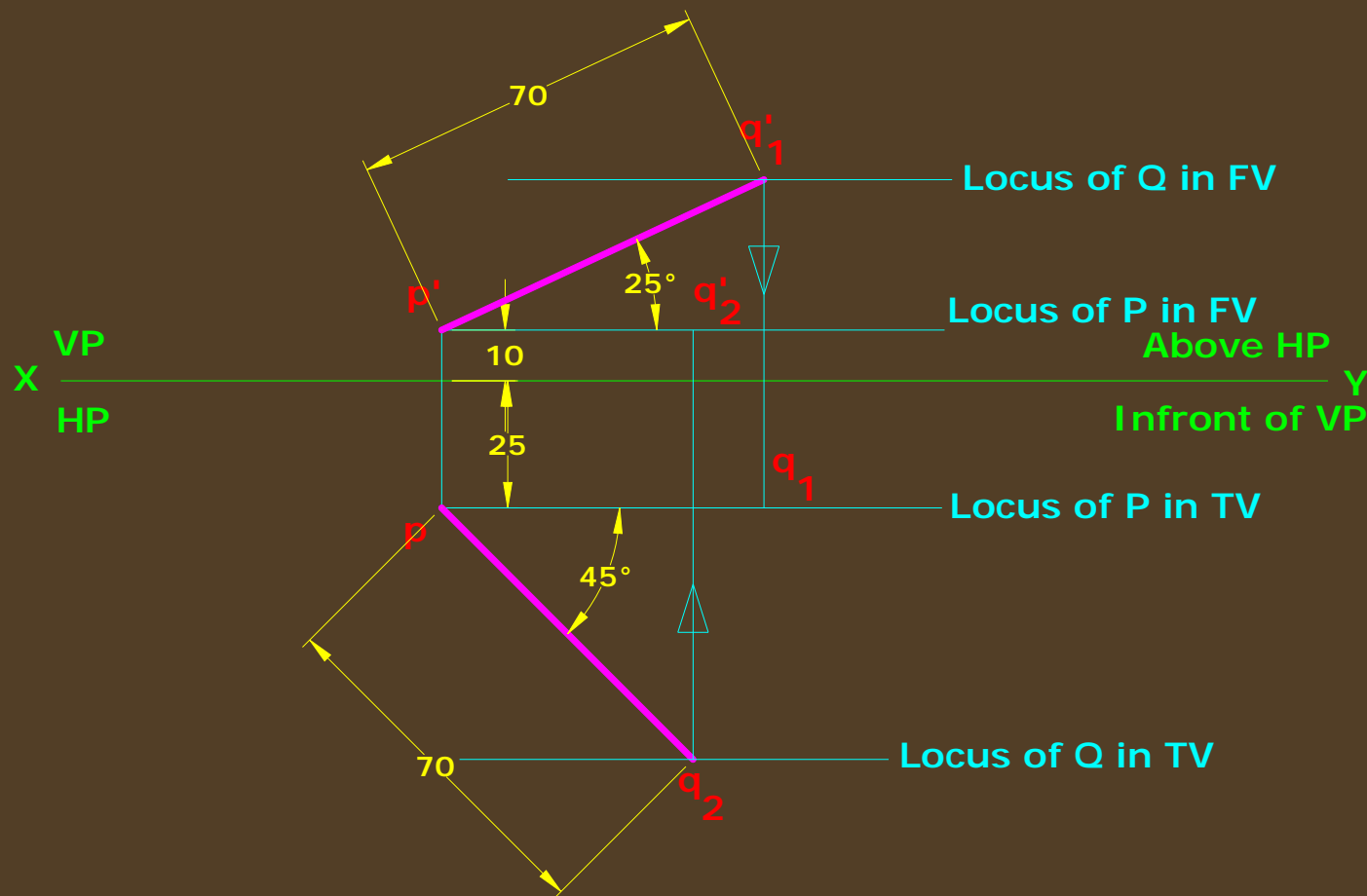
Line Inclined to both HP & VP- Rotating Line Method

One end of a line PQ 70mm long, is 10mm above HP and 25mm in front of VP. The line is inclined at 25^0 to HP and 45^0 to VP. Draw the projections and find its traces.   J22

VP

Above HP

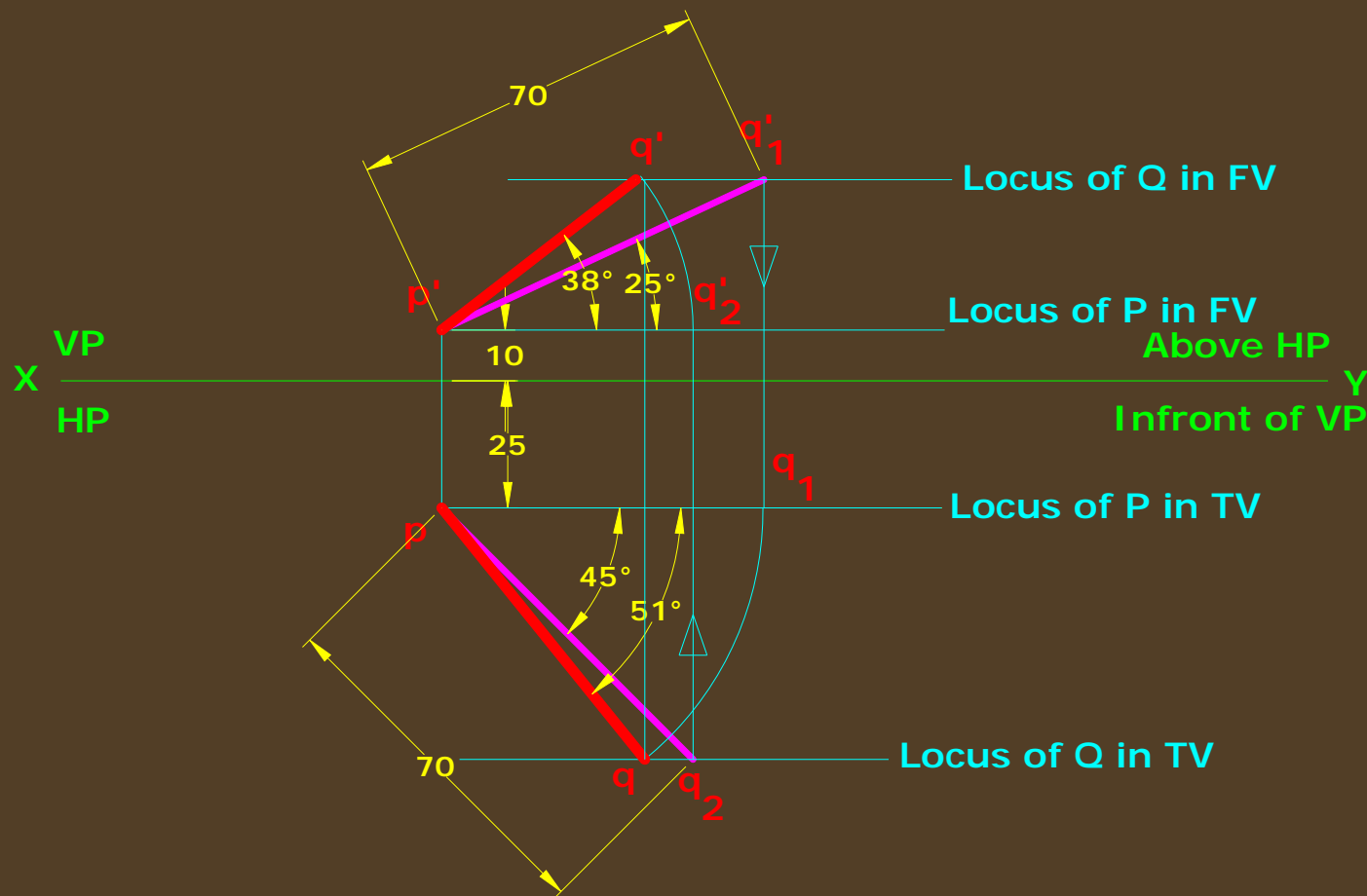X ———————————————————————————————— Y

HP

Infront of VP

Line Inclined to both HP & VP- Rotating Line Method

One end of a line PQ 70mm long, is 10mm above HP and 25mm in front of VP. The line is inclined at 25^0 to HP and 45^0 to VP. Draw the projections and find its traces.   J22
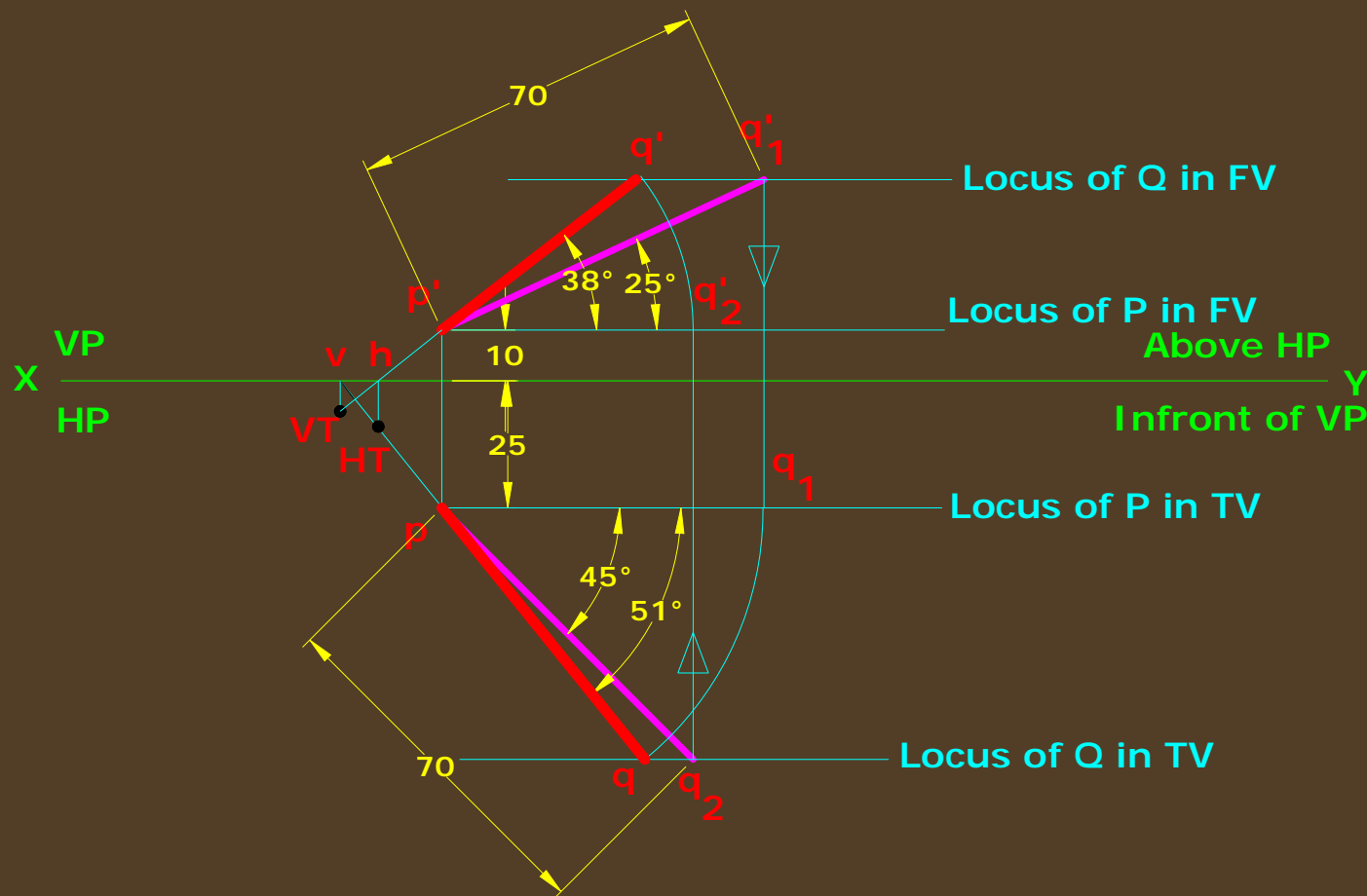
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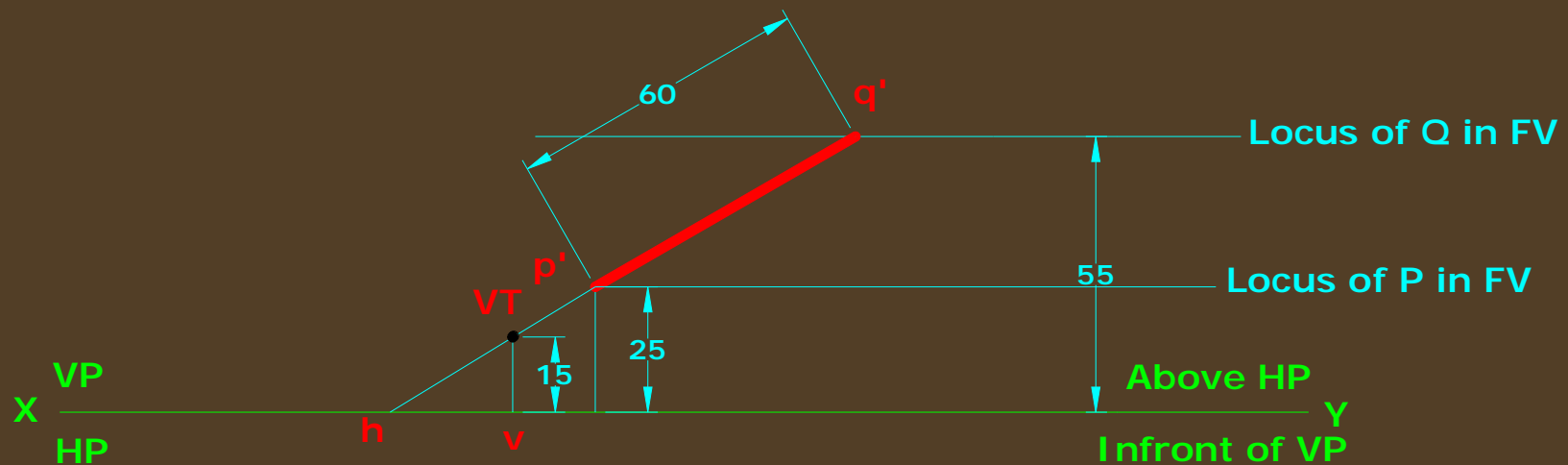
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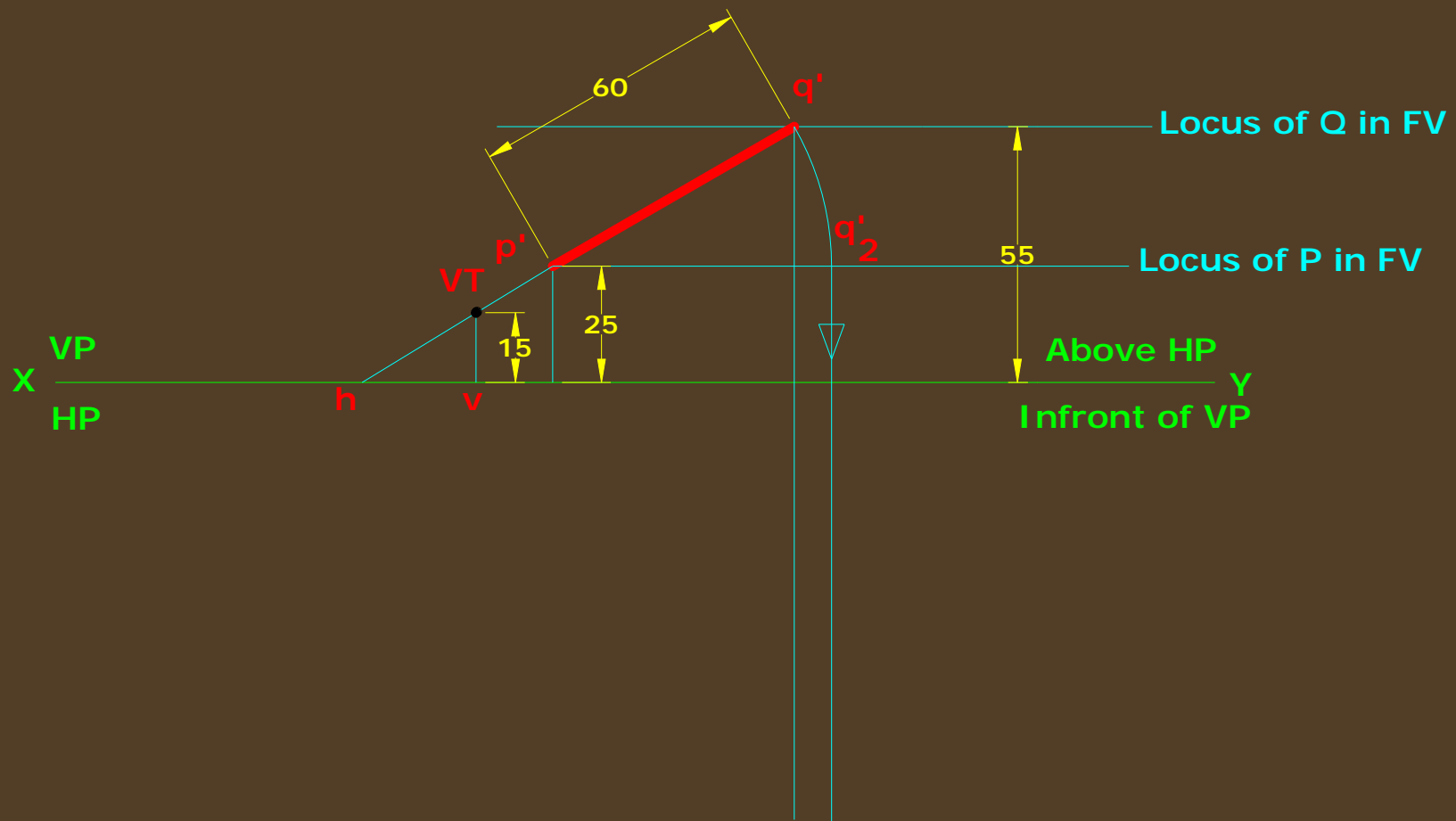
Line Inclined to both HP & VP- Rotating Line Method

A line PQ is inclined at 35^0 to VP has its ends 25mm & 55mm above the HP. The length of the front view is 60mm and its VT is 15mm above HP. Determine the true length of PQ , its inclination with HP and its HT.   J23
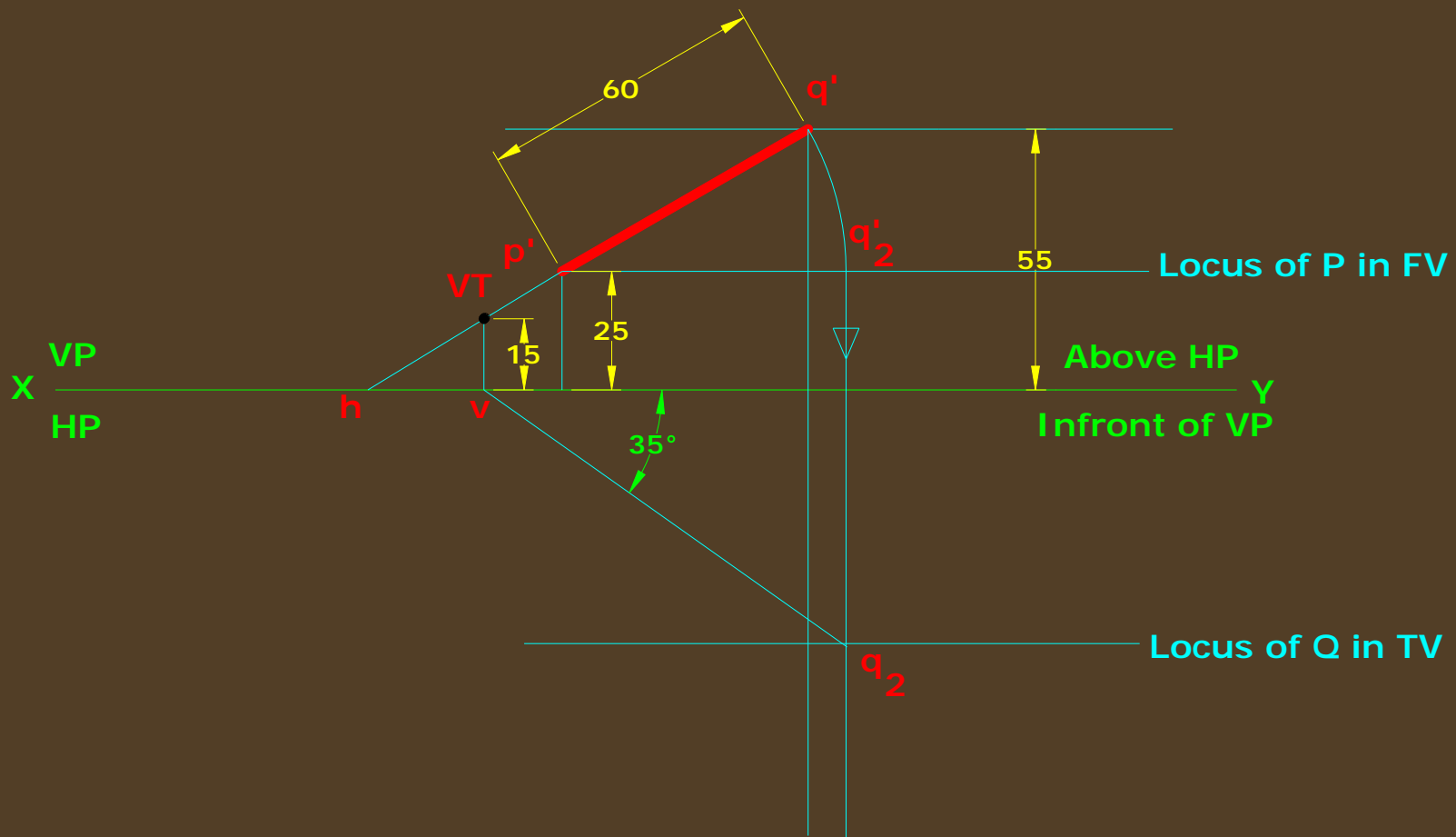
VP   Above HP
X ——————————————————————————————————— Y
HP   Infront of VP

Line Inclined to both HP & VP- Rotating Line Method

A line PQ is inclined at 35^0 to VP has its ends 25mm & 55mm above the HP. The length of the front view is 60mm and its VT is 15mm above HP. Determine the true length of PQ , its inclination with HP and its HT.   J23
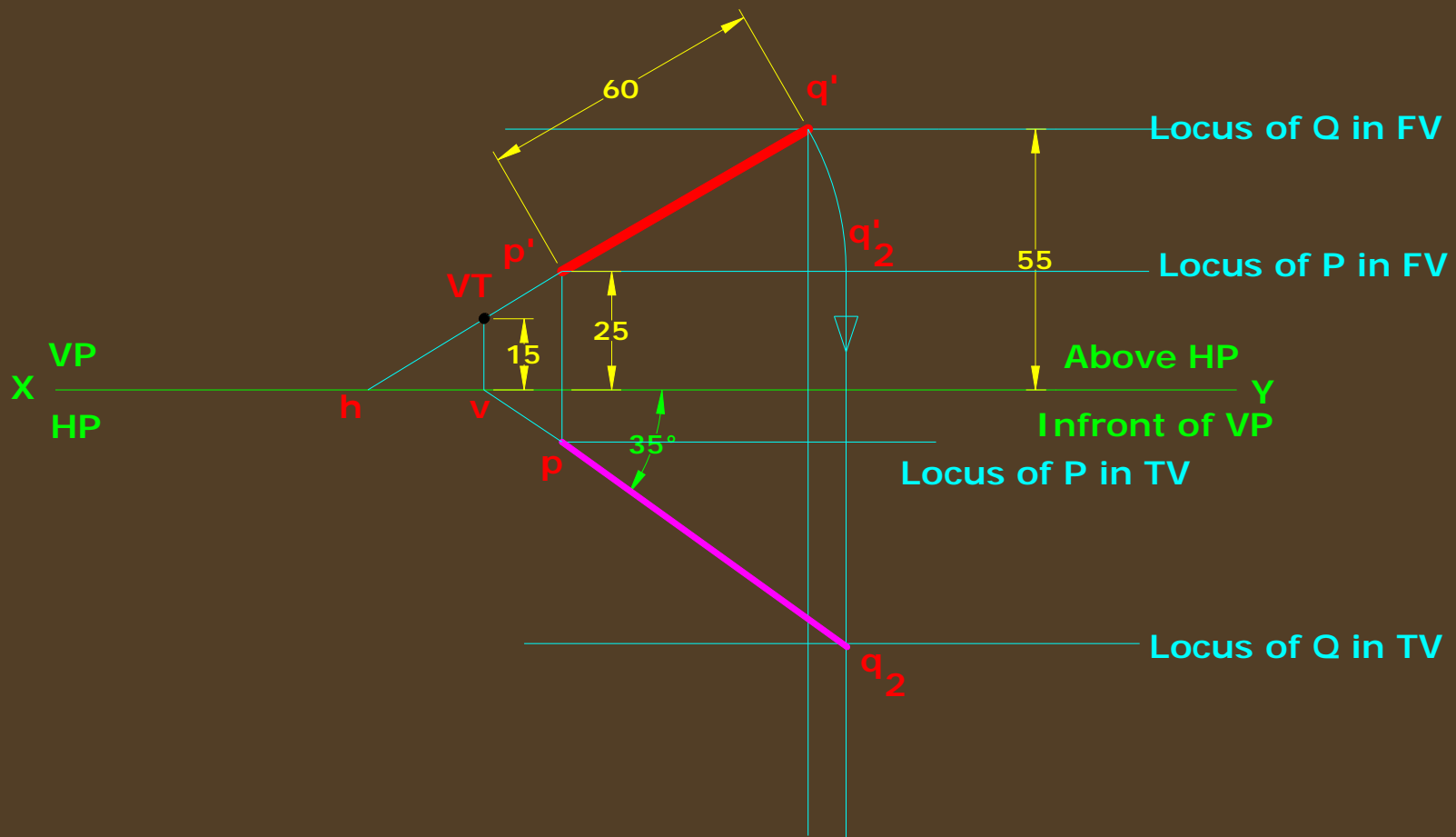
Line Inclined to both HP & VP- Rotating Line Method

A line PQ is inclined at 35⁰ to VP has its ends 25mm & 55mm above the HP. The length of the front view is 60mm and its VT is 15mm above HP. Determine the true length of PQ , its inclination with HP and its HT.   J23
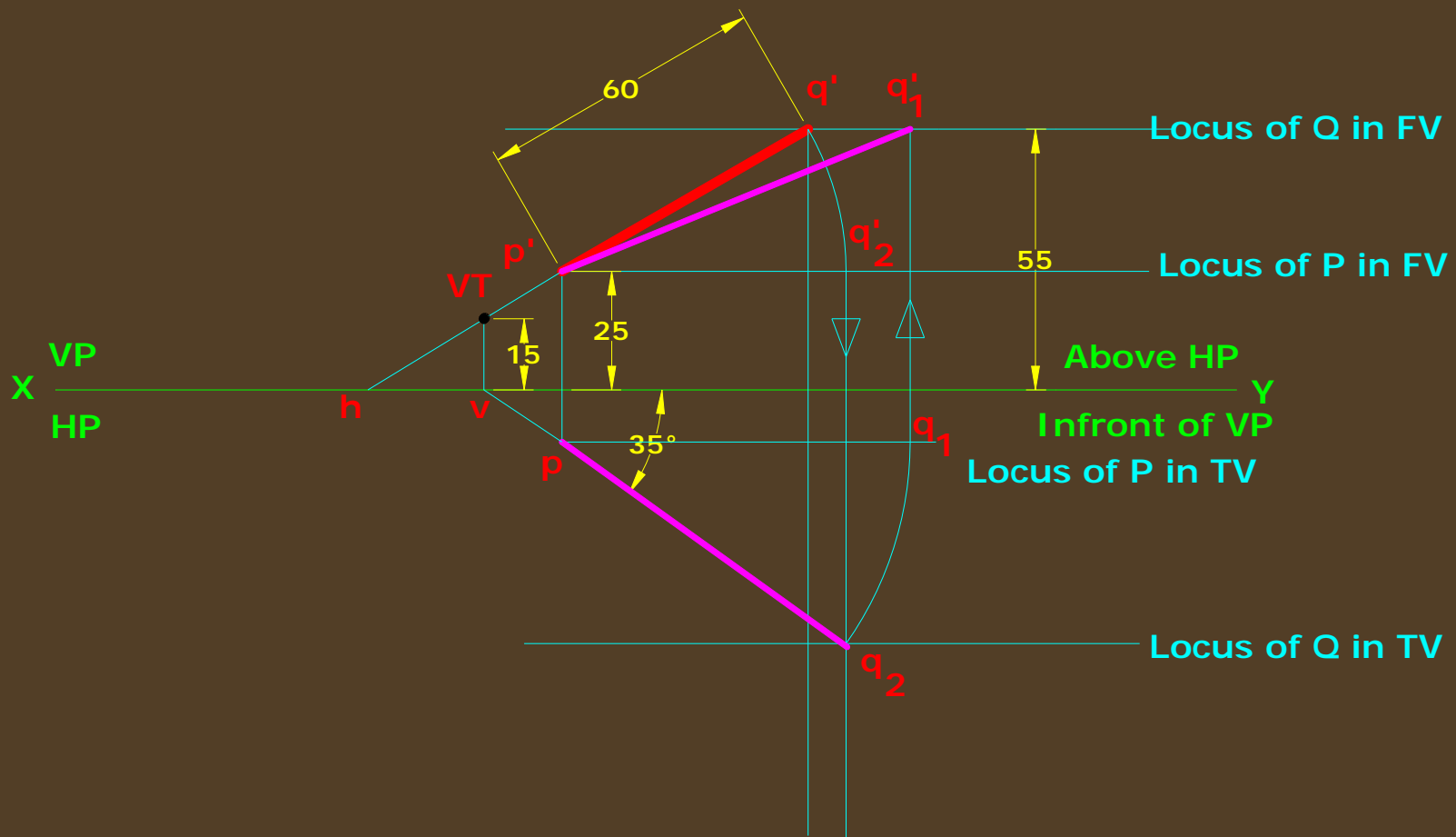
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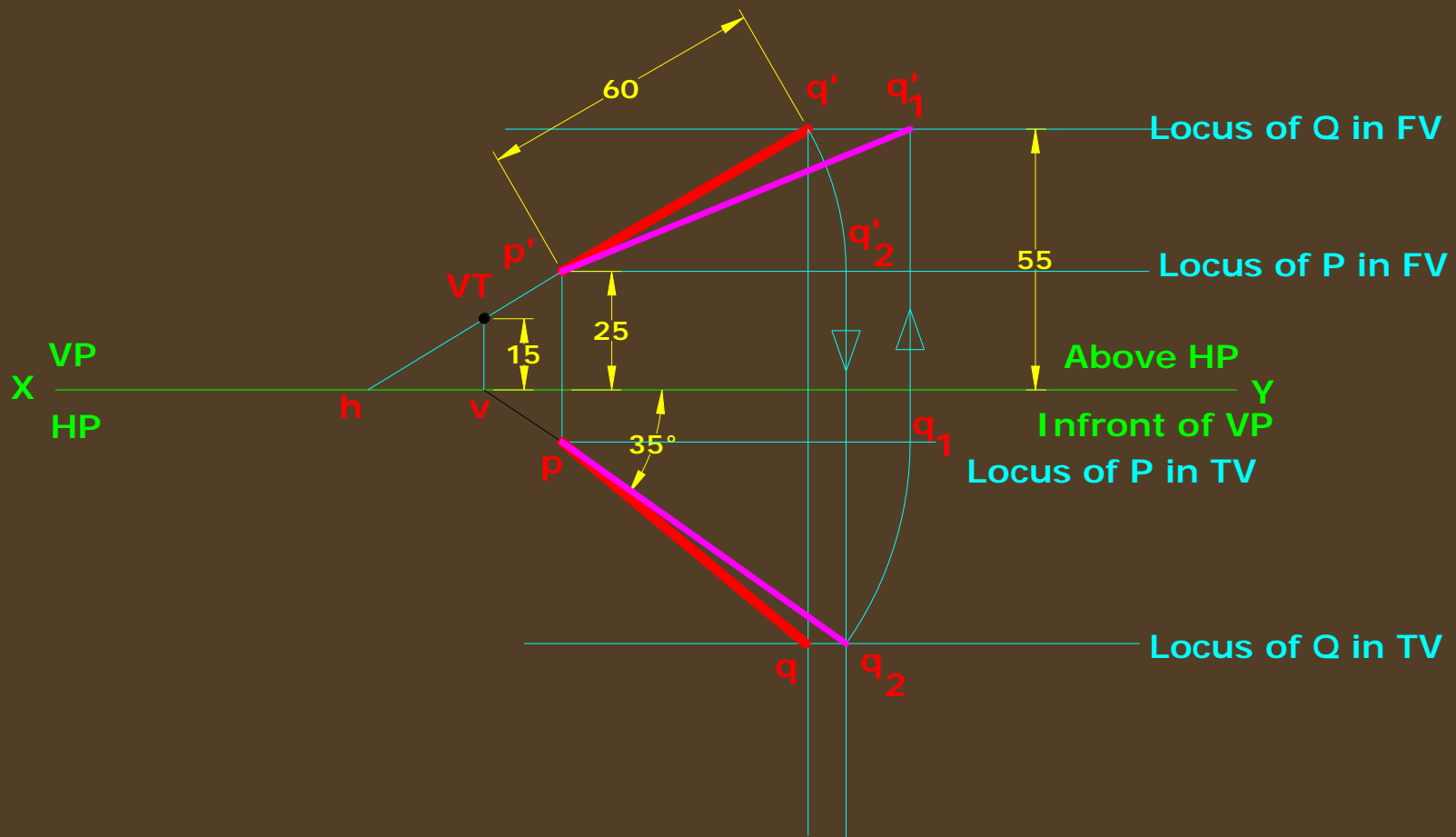
Line Inclined to both HP & VP- Rotating Line Method

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Line Inclined to both HP & VP- Rotating Line Method

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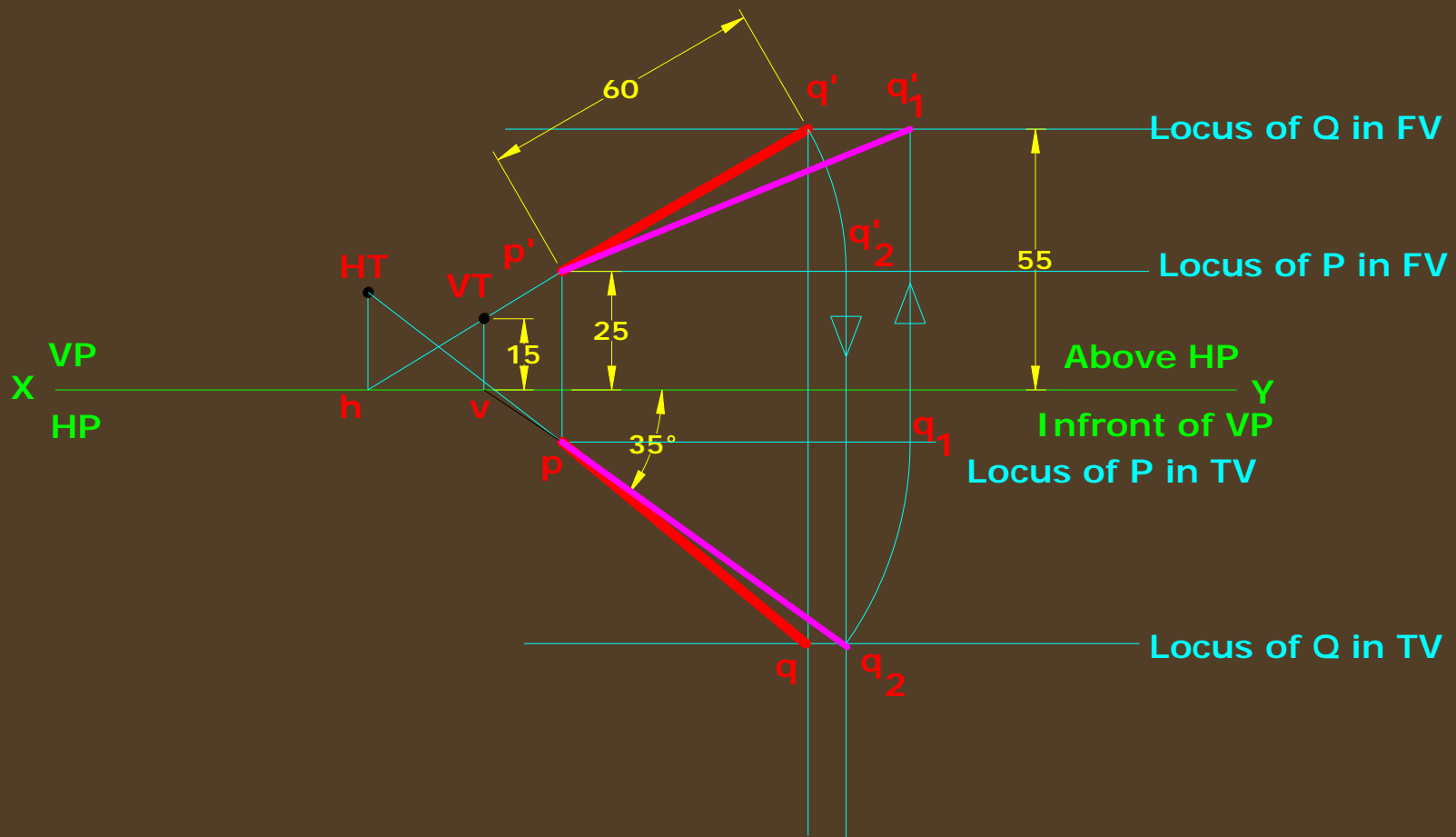
Line Inclined to both HP & VP- Rotating Line Method

A line PQ is inclined at 35^0 to VP has its ends 25mm & 55mm above the HP. The length of the front view is 60mm and its VT is 15mm above HP. Determine the true length of PQ , its inclination with HP and its HT.   J23

Line Inclined to both HP & VP- Rotating Line Method

A line PQ is inclined at 35^0 to VP has its ends 25mm & 55mm above the HP. The length of the front view is 60mm and its VT is 15mm above HP. Determine the true length of PQ , its inclination with HP and its HT.   J23
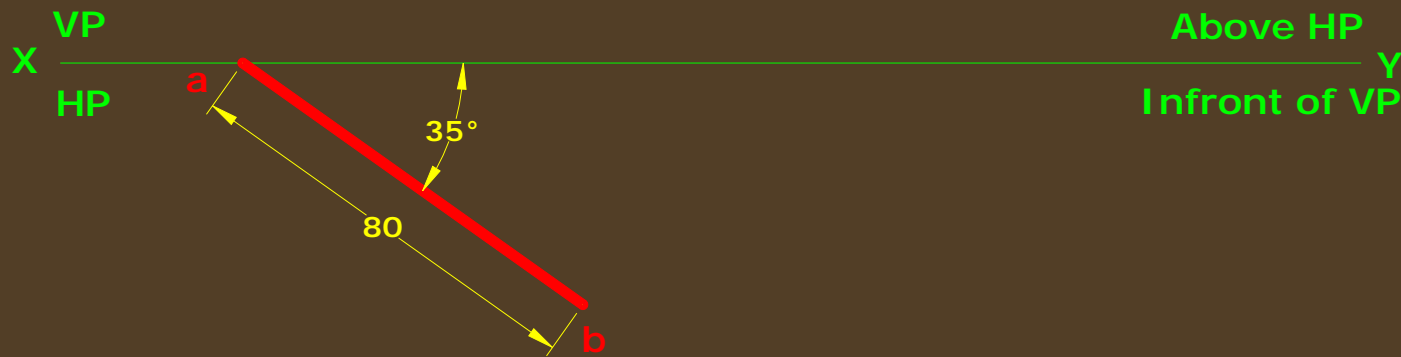
Line Inclined to both HP & VP- Rotating Line Method

The plan of a line AB is 80mm long and makes 35^0 with XY. Its elevation makes 45^0 with XY and the line intersects XY at A. Find its true length and inclinations to HP and VP.   ST 18
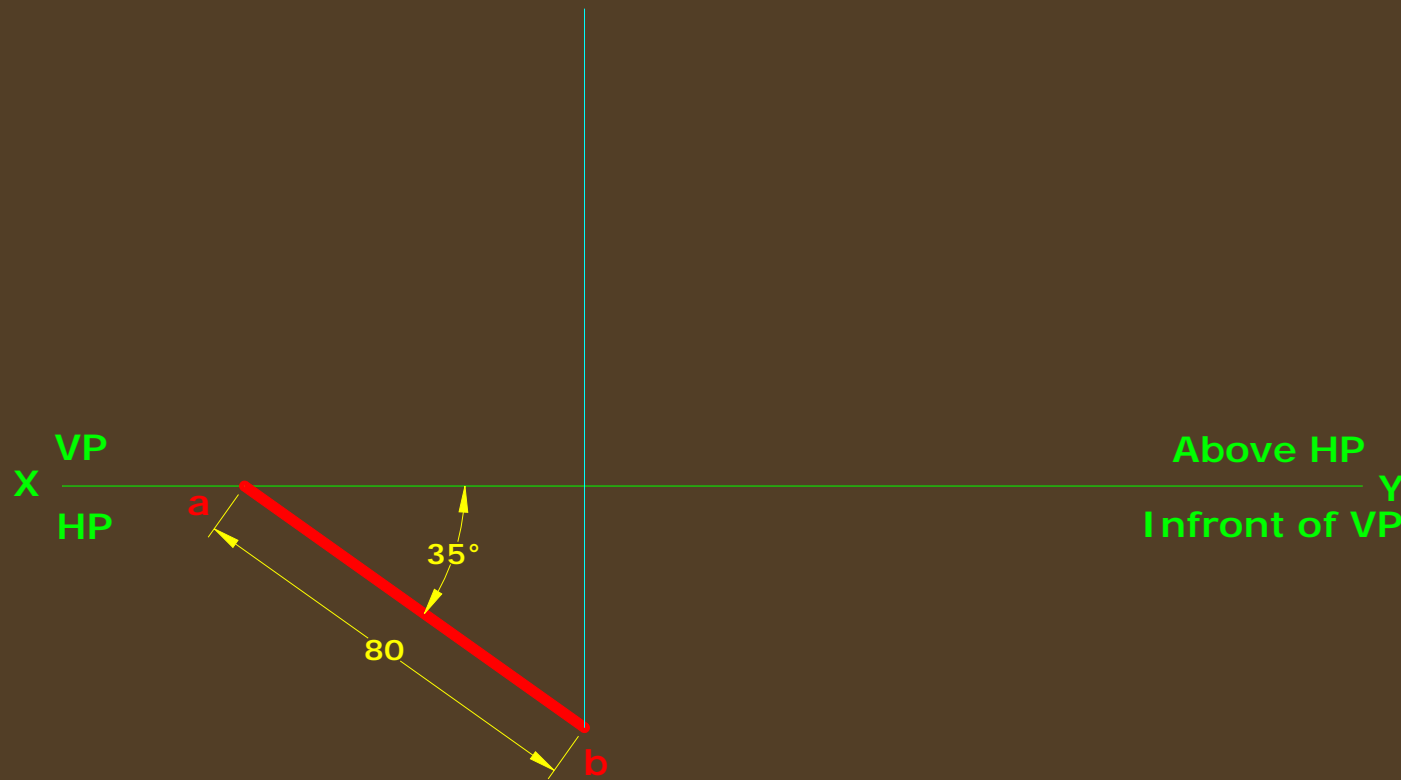
VP   Above HP

X ——————————————————————————————— Y

HP   Infront of VP

Line Inclined to both HP & VP- Rotating Line Method

The plan of a line AB is 80mm long and makes 35^0 with XY. Its elevation makes 45^0 with XY and the line intersects XY at A. Find its true length and inclinations to HP and VP.   ST 18
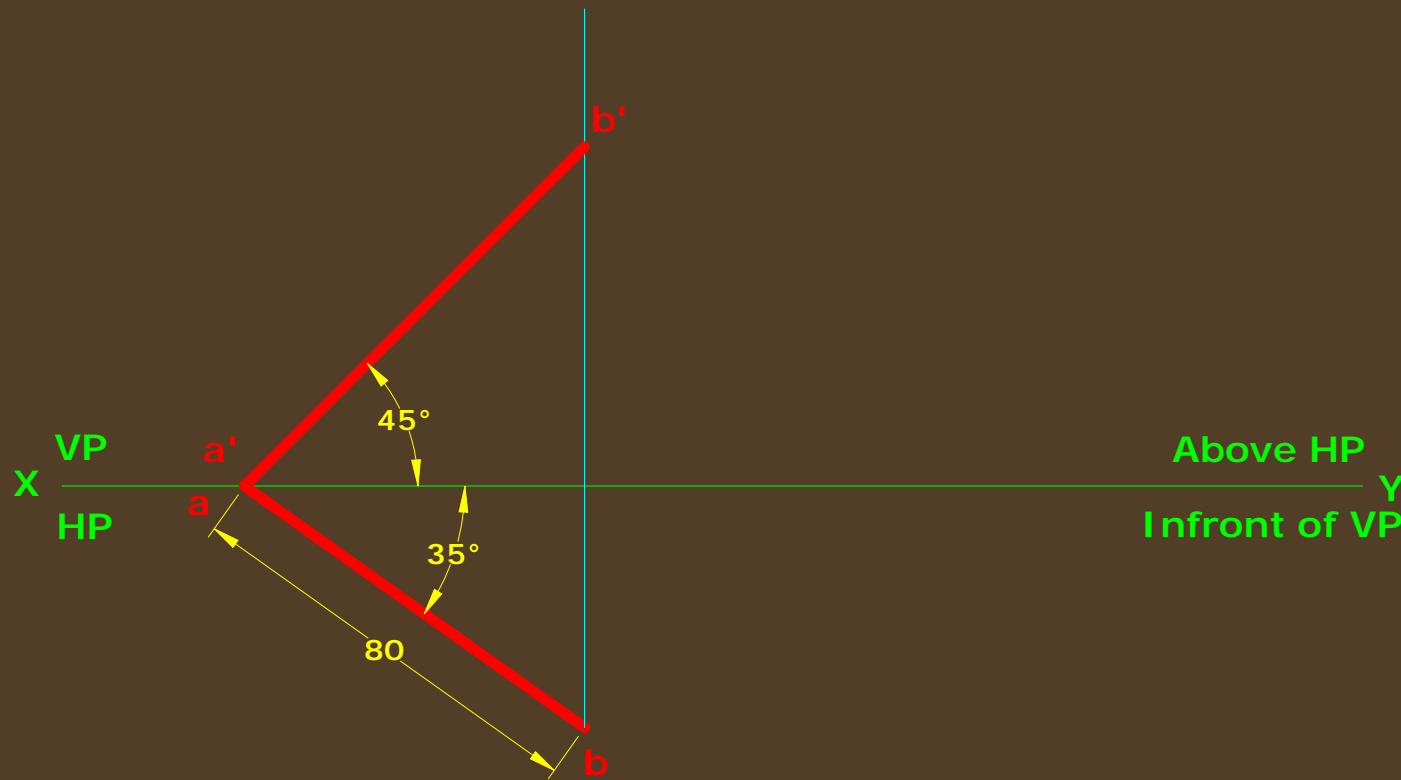
VP

Above HP

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

HP

Infront of VP

a

35°

80

b

Line Inclined to both HP & VP- Rotating Line Method

The plan of a line AB is 80mm long and makes 35⁰ with XY. Its elevation makes 45⁰ with XY and the line intersects XY at A. Find its true length and inclinations to HP and VP.   ST 18
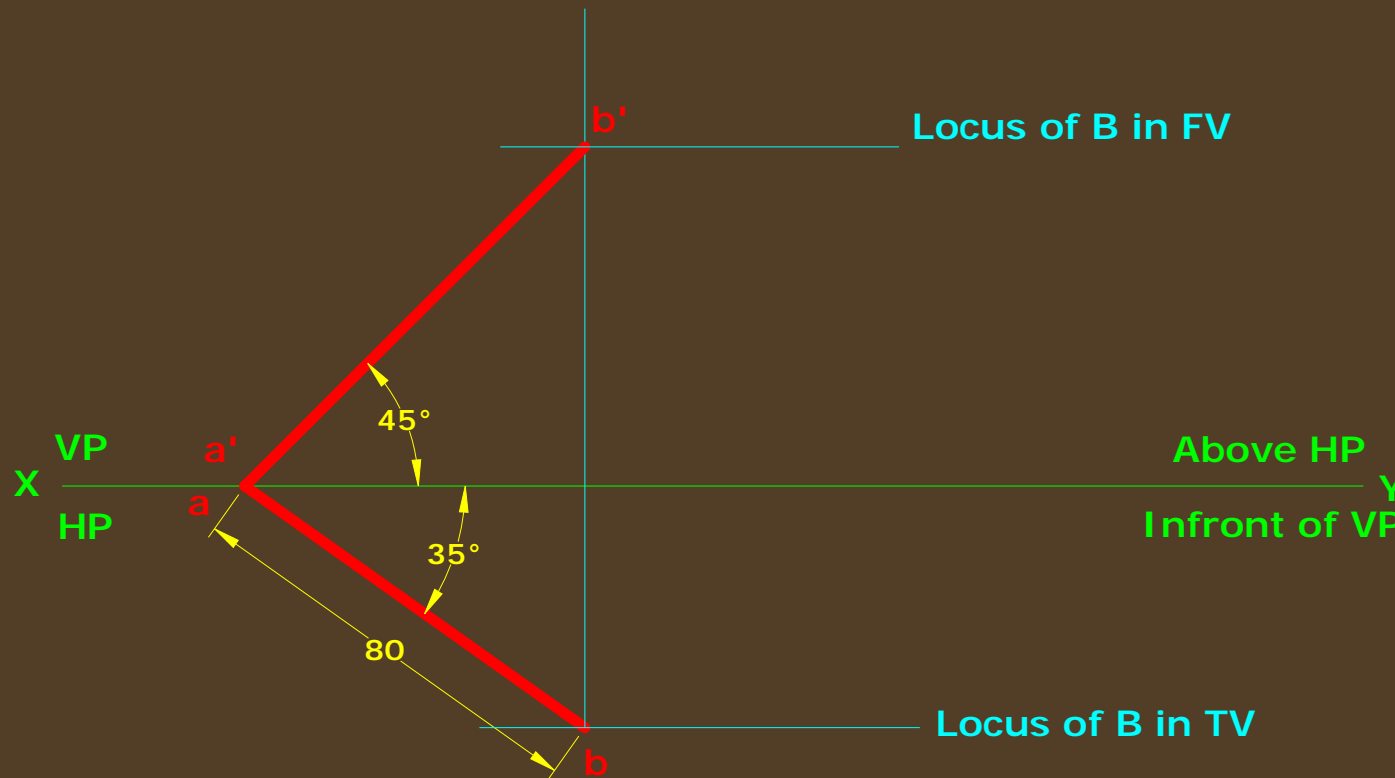
Line Inclined to both HP & VP- Rotating Line Method

The plan of a line AB is 80mm long and makes 35^0 with XY. Its elevation makes 45^0 with XY and the line intersects XY at A. Find its true length and inclinations to HP and VP.   ST 18
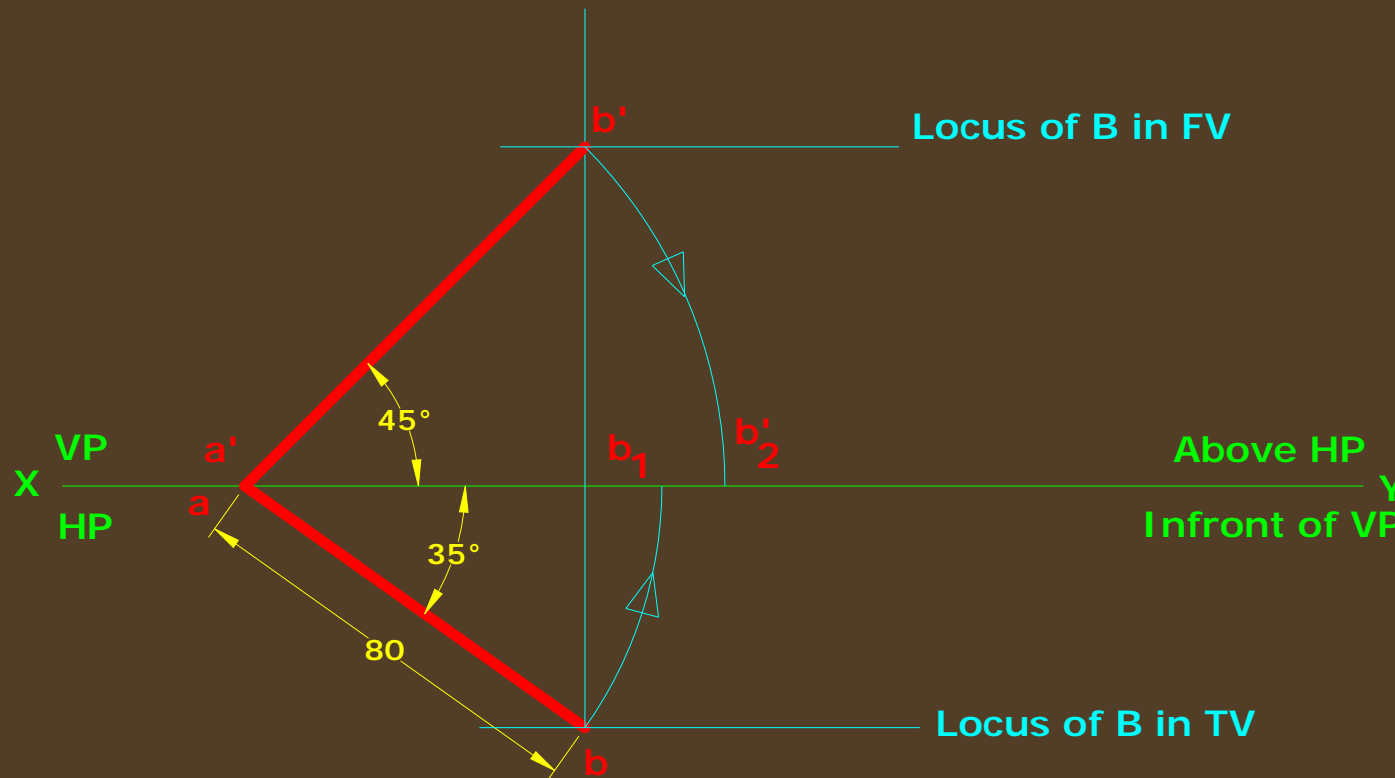
Line Inclined to both HP & VP- Rotating Line Method

The plan of a line AB is 80mm long and makes 35⁰ with XY. Its elevation makes 45⁰ with XY and the line intersects XY at A. Find its true length and inclinations to HP and VP.   ST 18
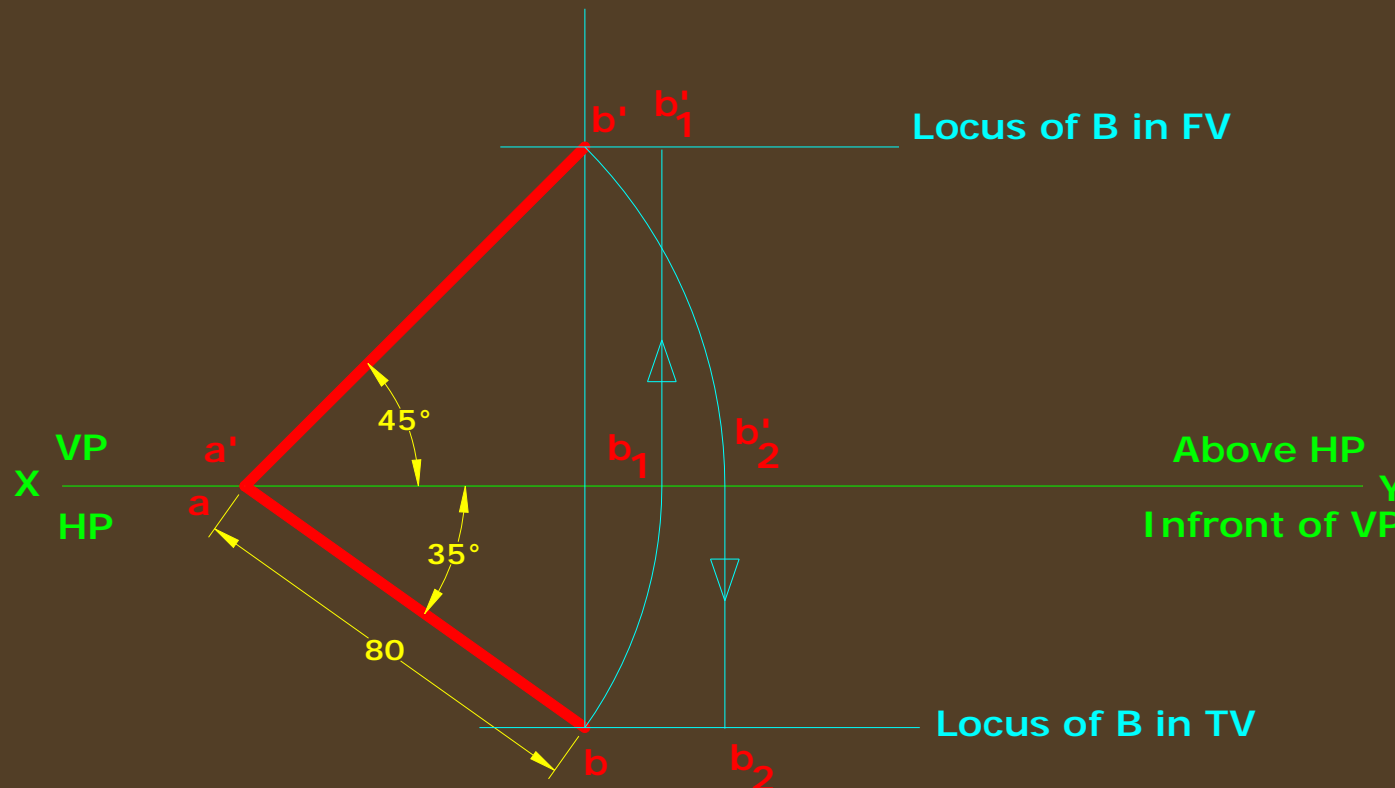
Line Inclined to both HP & VP- Rotating Line Method

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Line Inclined to both HP & VP- Rotating Line Method

The plan of a line AB is 80mm long and makes 35⁰ with XY. Its elevation makes 45⁰ with XY and the line intersects XY at A. Find its true length and inclinations to HP and VP.   ST 18
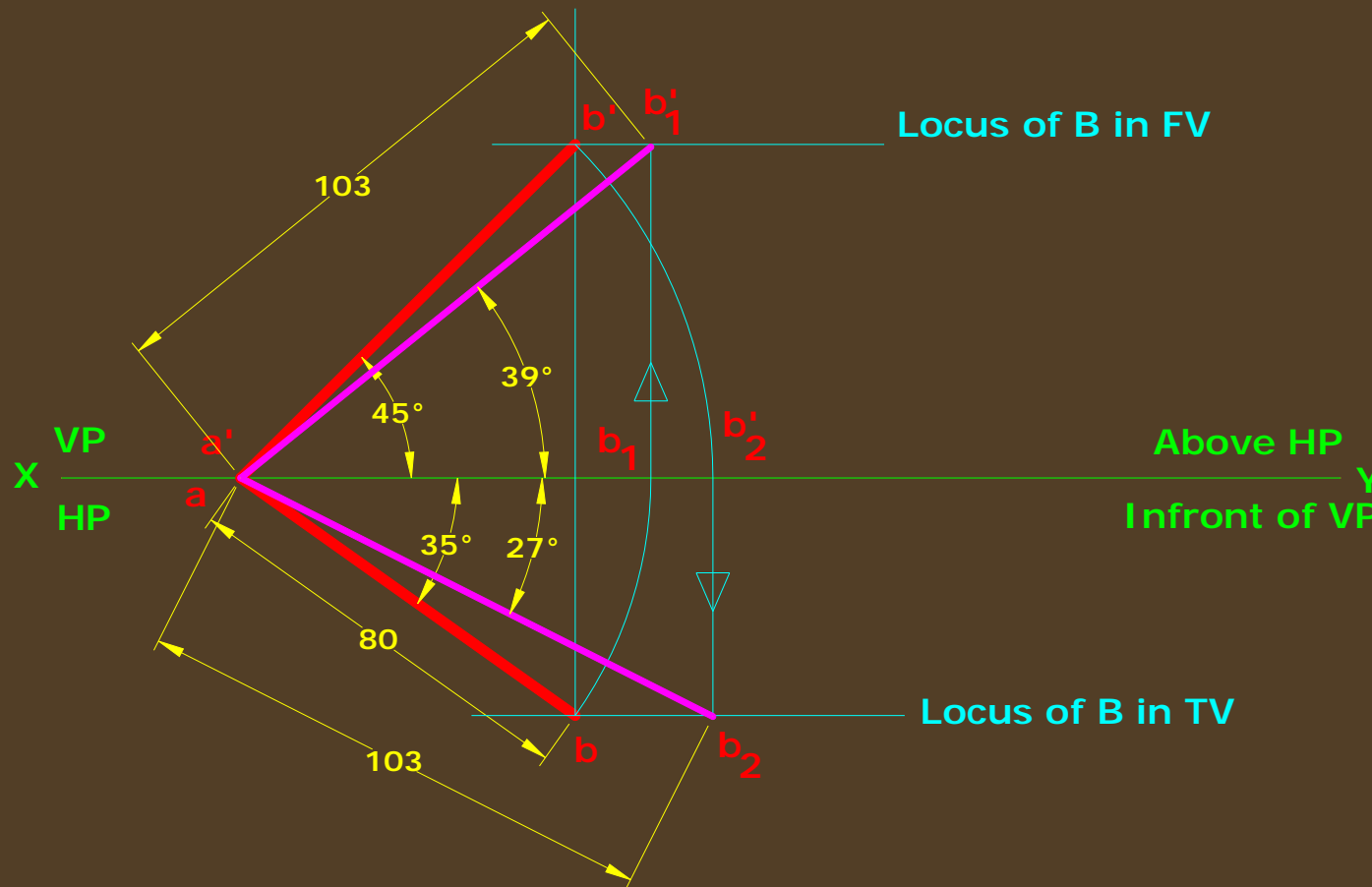
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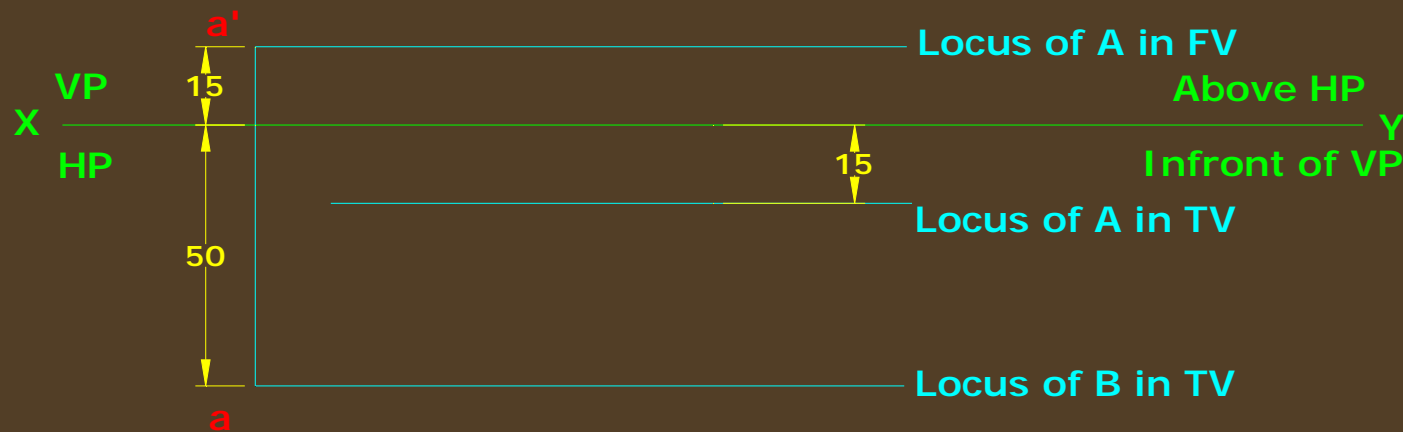
Line Inclined to both HP & VP- Rotating Line Method

A line measuring 75mm long has one of its ends 50mm in front of VP and 15mm above HP. The top view of the line is 50mm long. The other end is 15mm in front of VP and is above HP. Draw the projections and find the true inclination.   ST 21

VP

Above HP

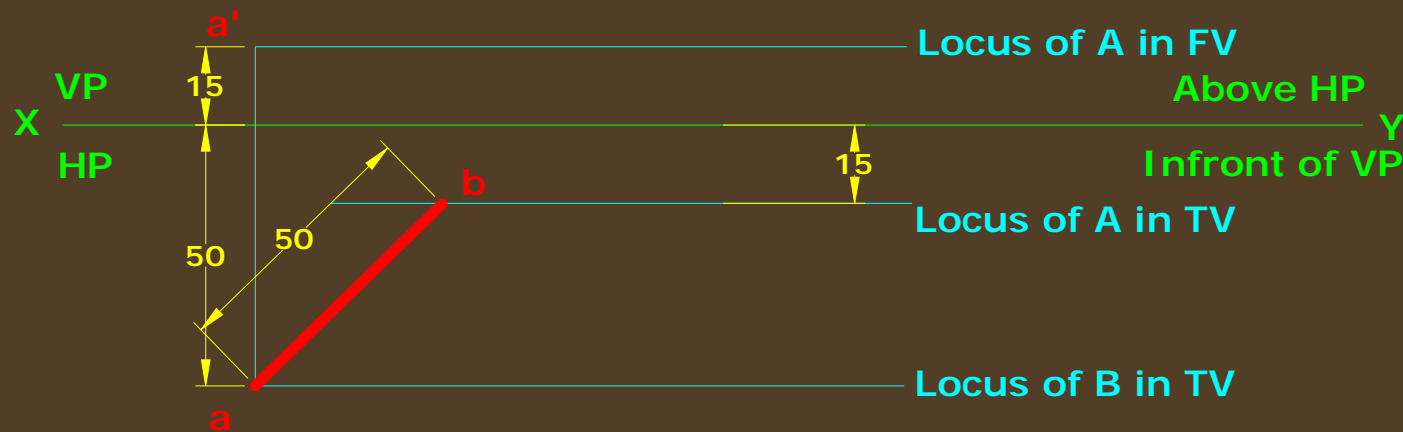X ——————————————————————————————— Y

HP

Infront of VP

Line Inclined to both HP & VP- Rotating Line Method

A line measuring 75mm long has one of its ends 50mm in front of VP and 15mm above HP. The top view of the line is 50mm long. The other end is 15mm in front of VP and is above HP. Draw the projections and find the true inclination.   ST 21

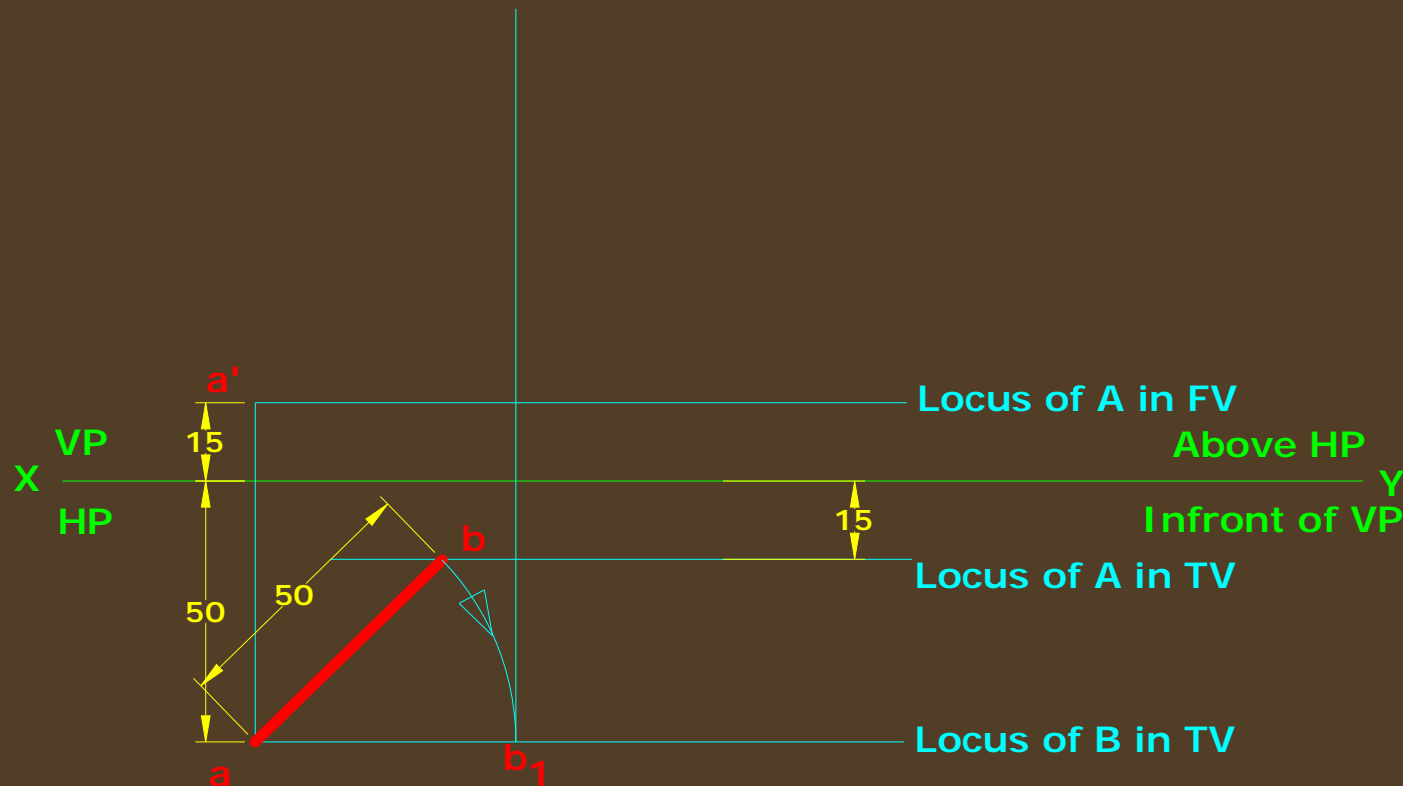# Line Inclined to both HP & VP- Rotating Line Method

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a'

VP   15

X   Y

HP

50   50

Locus of A in FV

Above HP

15   Infront of VP

b   Locus of A in TV

a

Locus of B in TV

Line Inclined to both HP & VP- Rotating Line Method

A line measuring 75mm long has one of its ends 50mm in front of VP and 15mm above HP. The top view of the line is 50mm long. The other end is 15mm in front of VP and is above HP. Draw the projections and find the true inclination.   ST 21
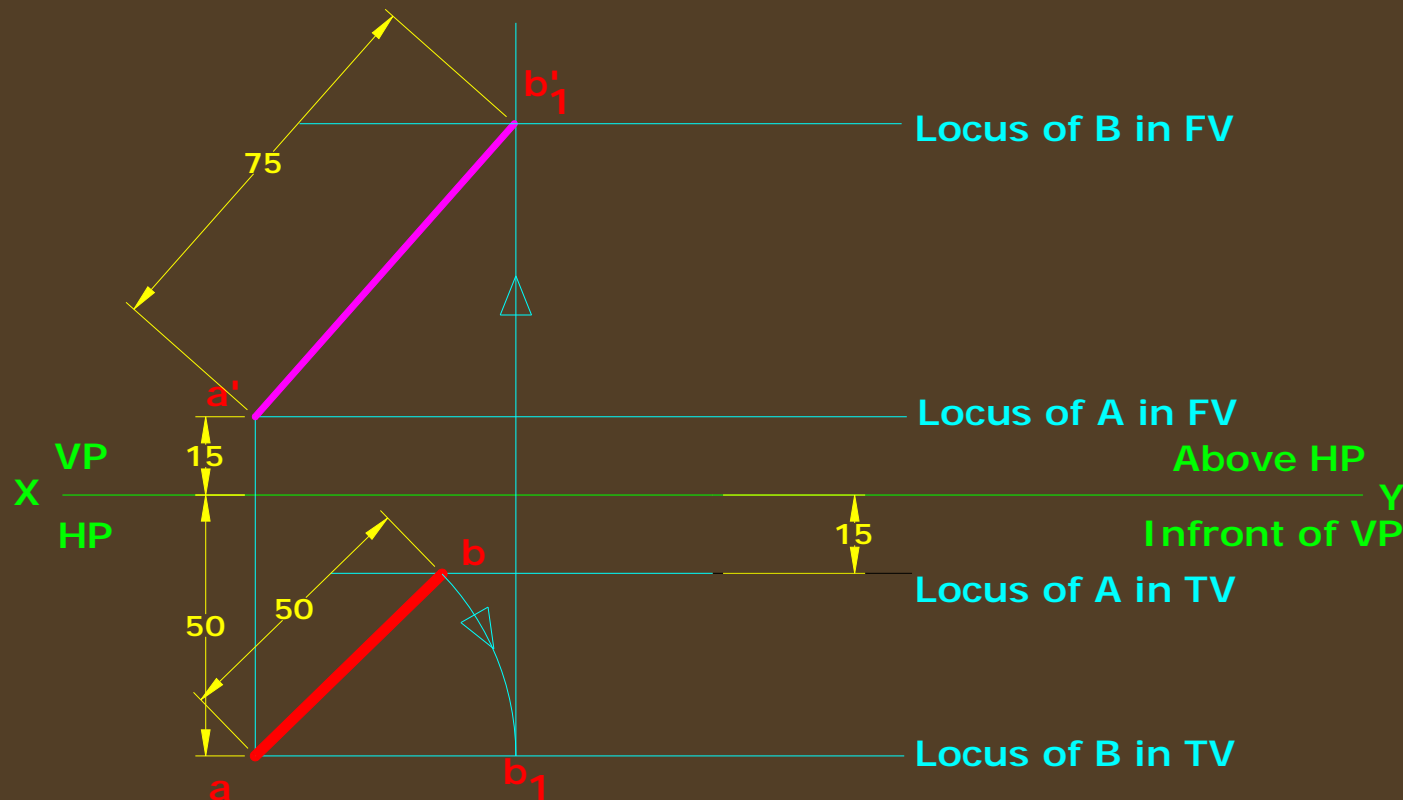
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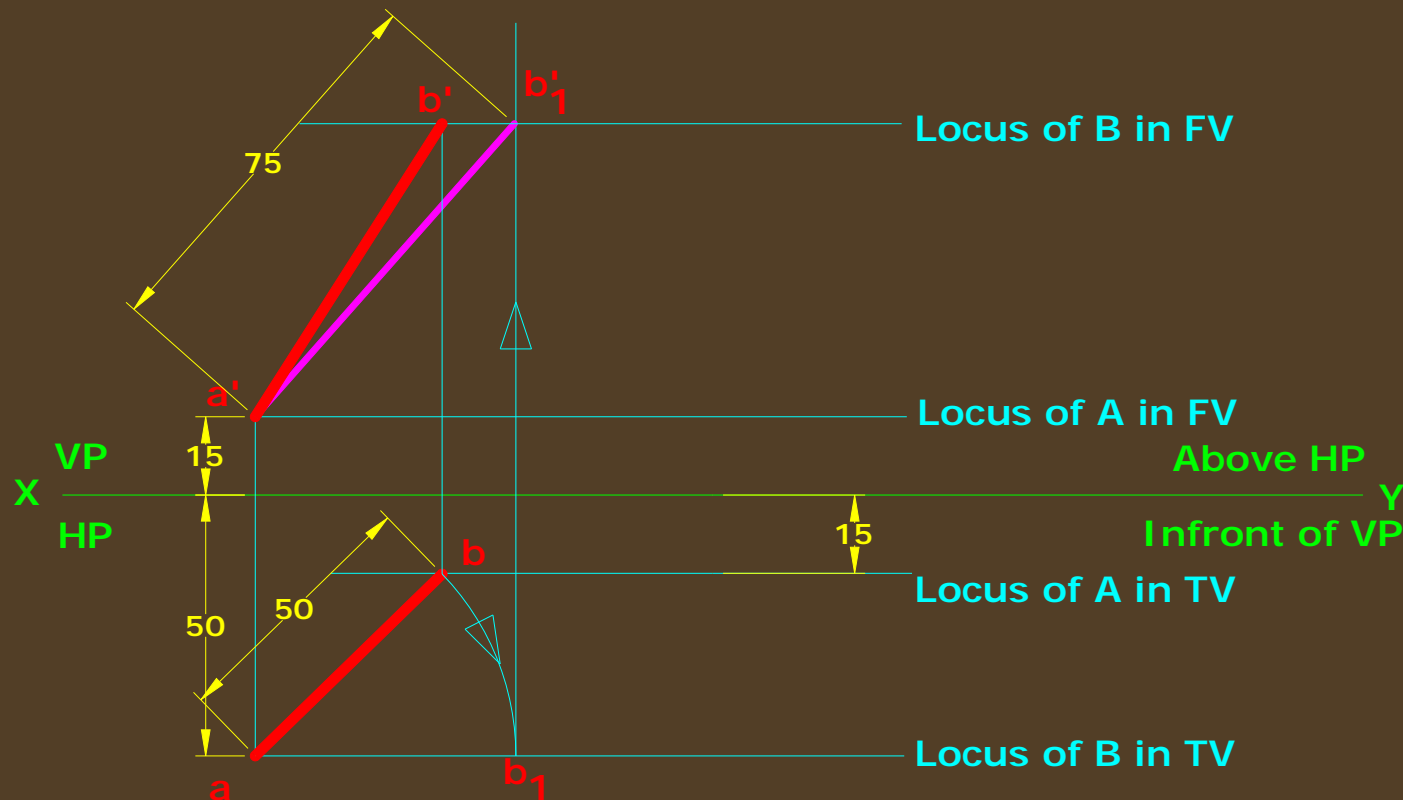
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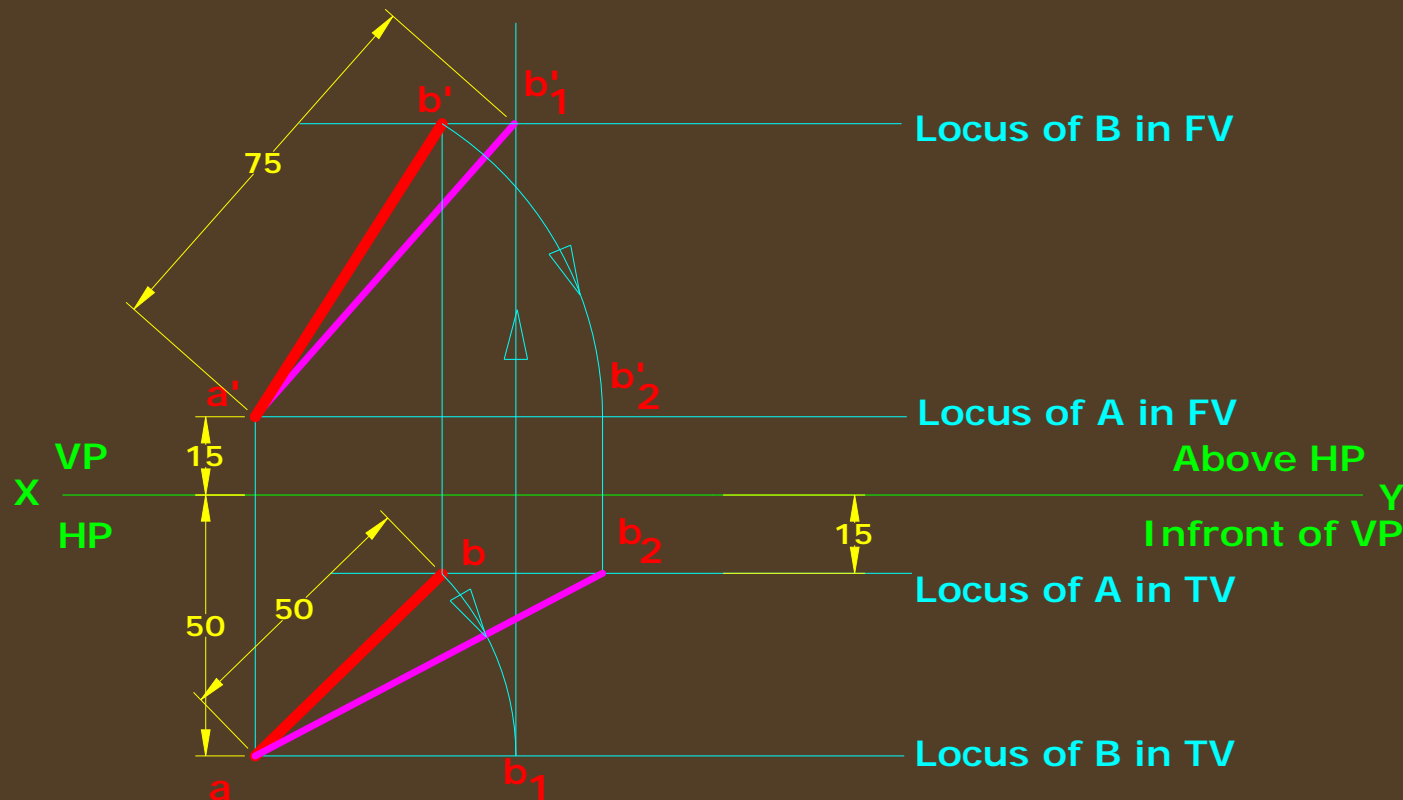

Locus of B in FV

75

b'   b'₁

b'₂

Locus of A in FV

VP   15   Above HP

X   Y

HP   15   Infront of VP

a'

b   b₂

50   50   Locus of A in TV

a

b₁

Locus of B in TV

Line Inclined to both HP & VP- Rotating Line Method

A line measuring 75mm long has one of its ends 50mm in front of VP and 15mm above HP. The top view of the line is 50mm long. The other end is 15mm in front of VP and is above HP. Draw the projections and find the true inclination.   ST 21
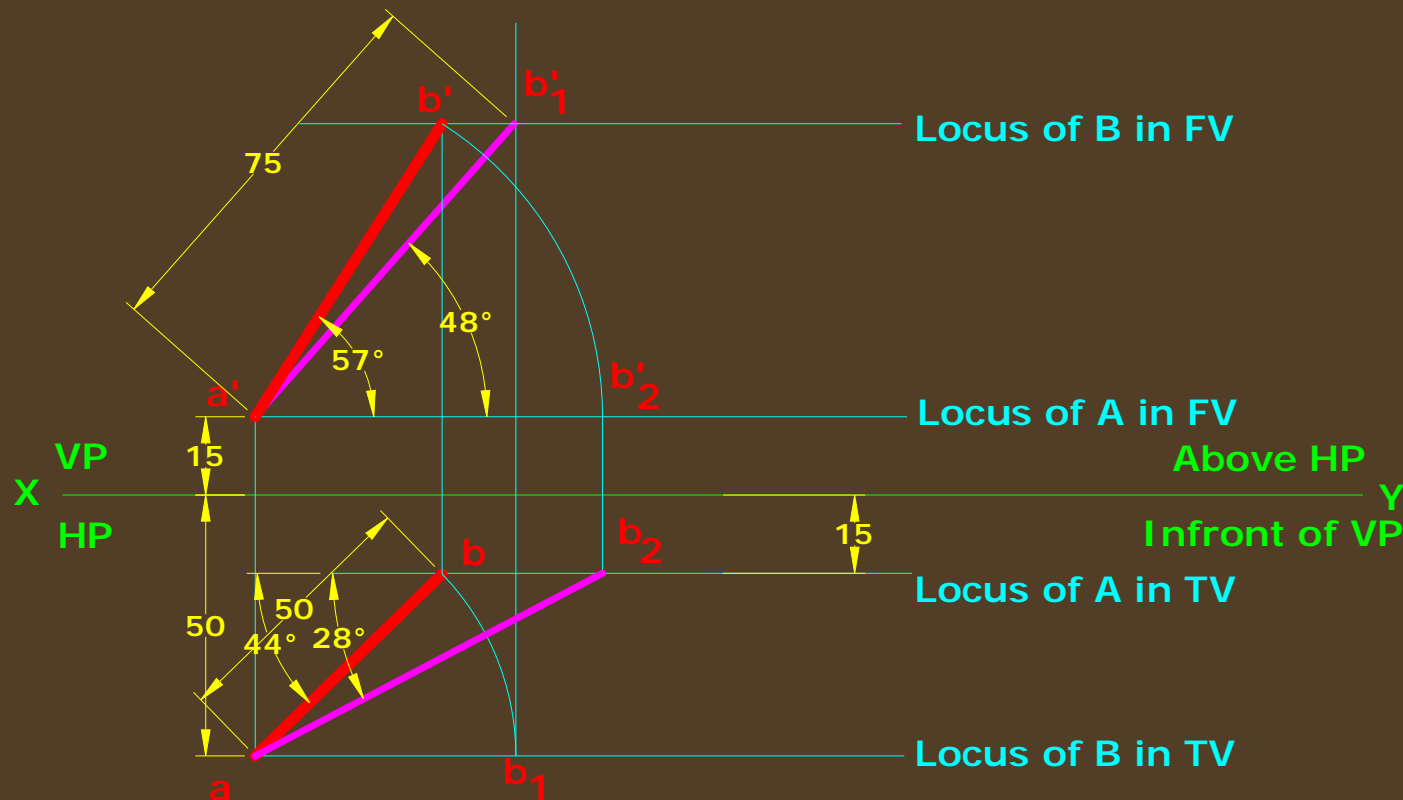
Line Inclined to both HP & VP- Rotating Line Method

End A of line AB is 10mm above HP and 20mm in front of VP. The other end is 45mm above HP and 65mm in front of VP. The distance between the end projector is 40mm. Draw the projection and find inclinations and true length.   ST 22
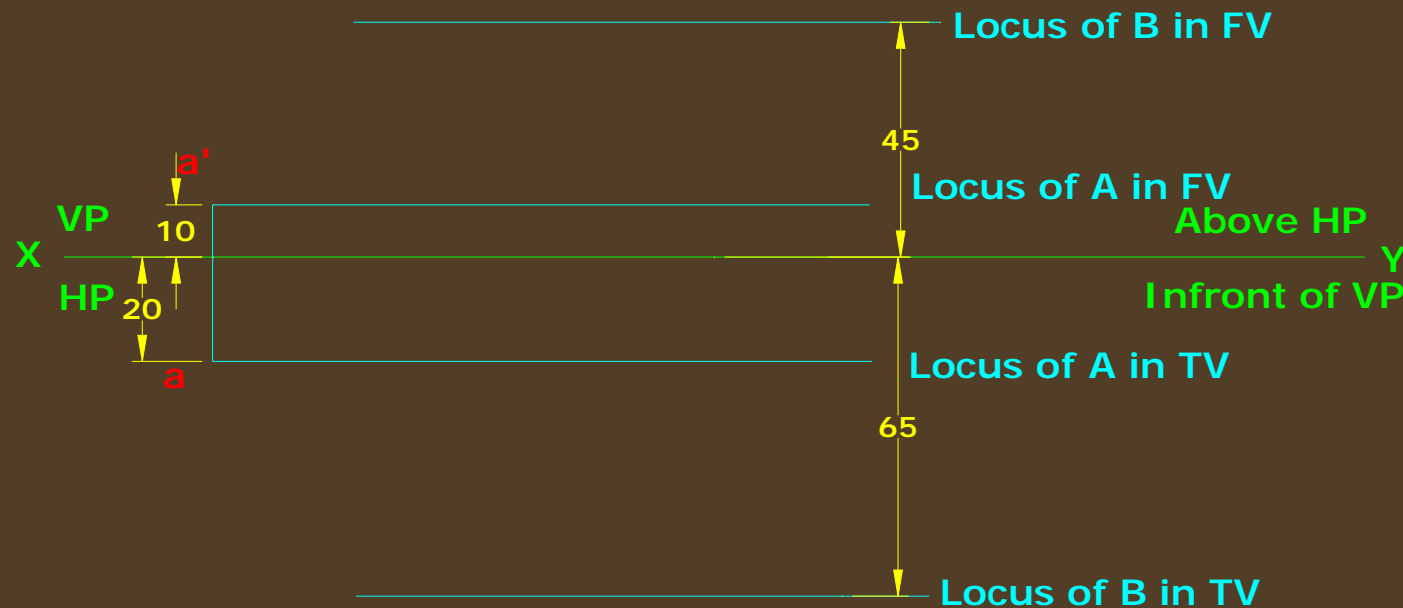
VP

Above HP

X ———————————————————————— Y

HP

Infront of VP

Line Inclined to both HP & VP- Rotating Line Method

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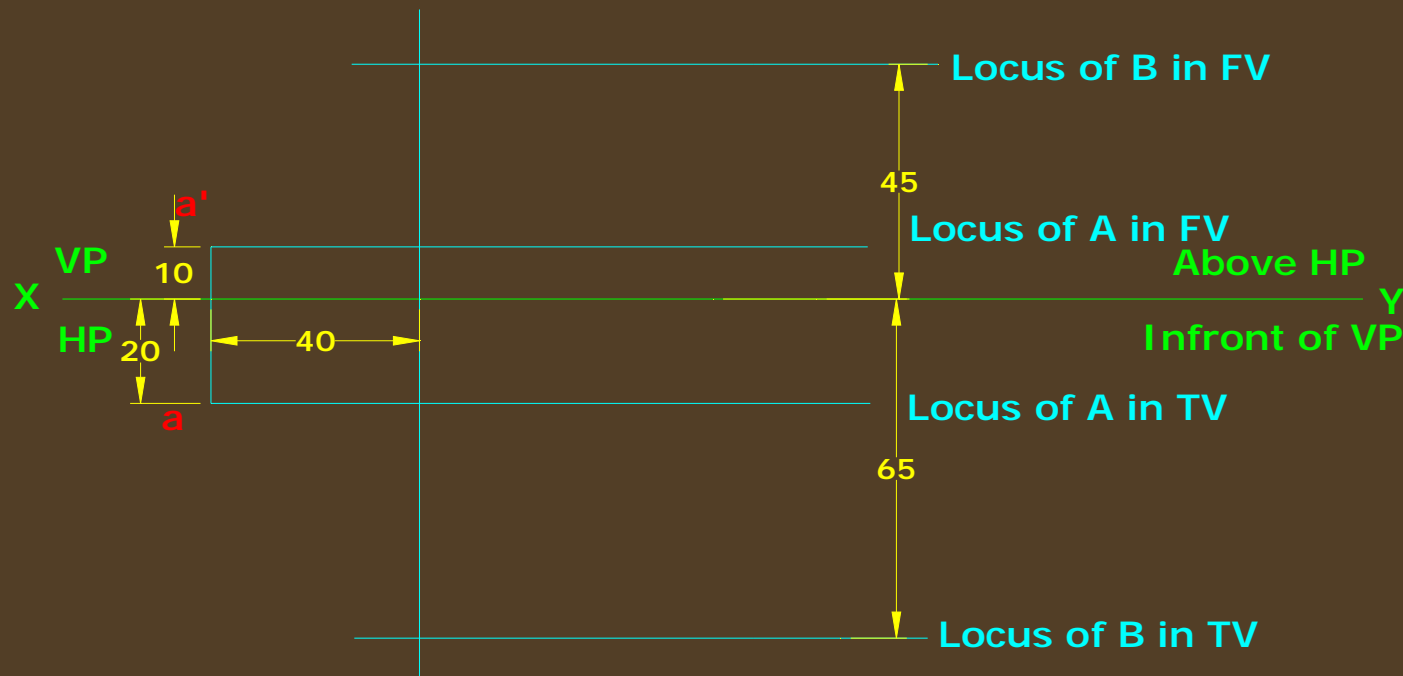
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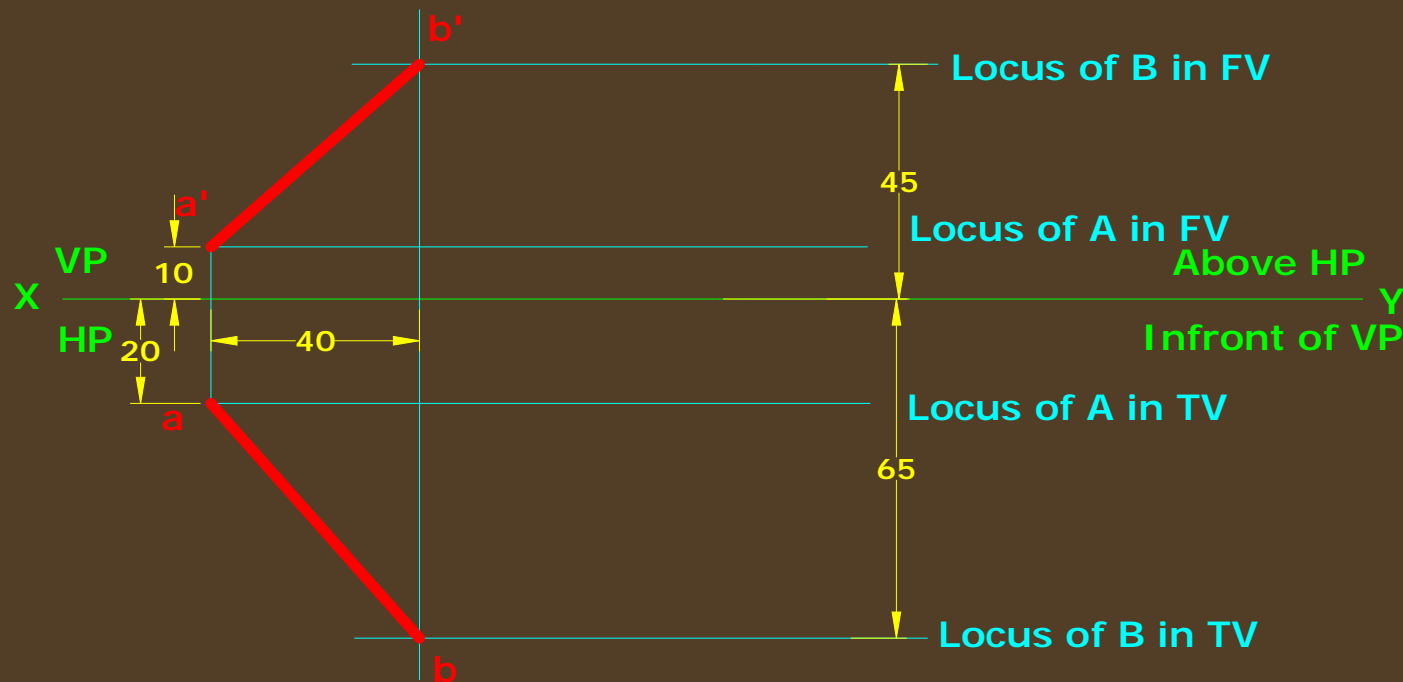
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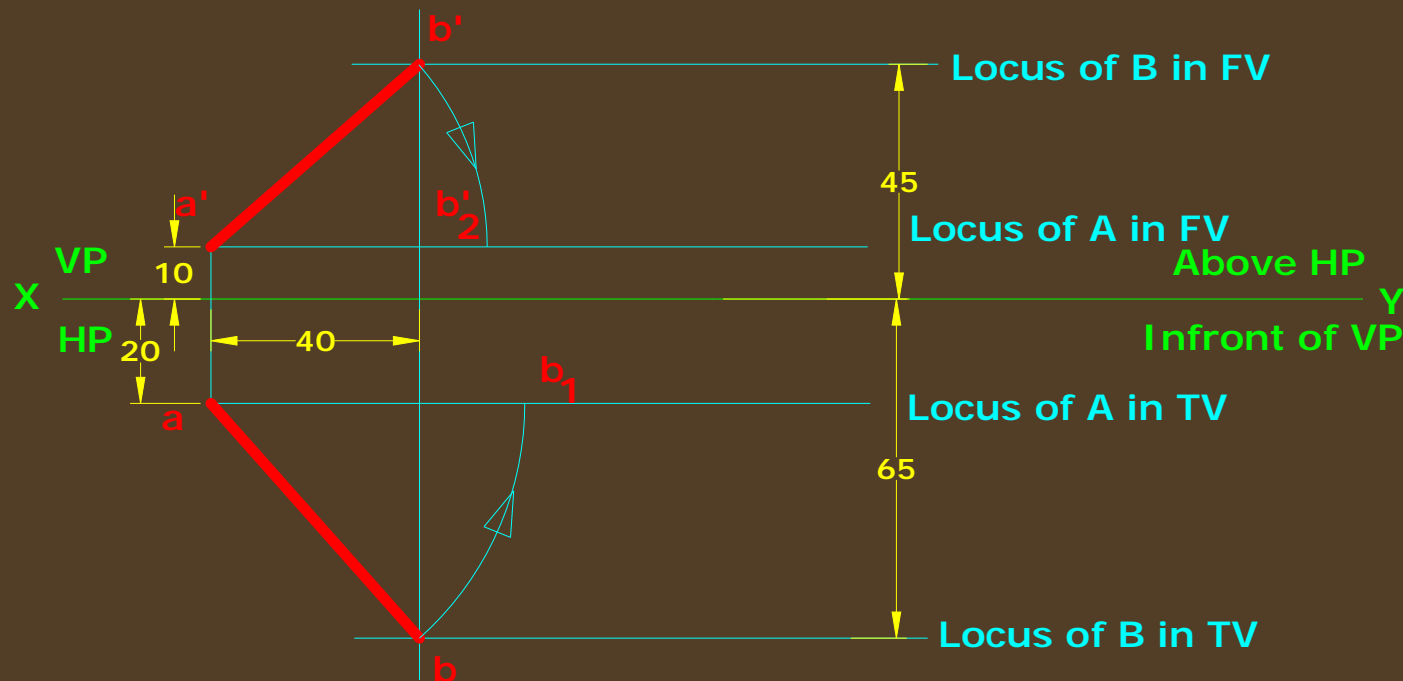

Locus of B in FV

45

Locus of A in FV

Above HP

a'

VP

10

X

HP 20

40

Y

Infront of VP

Locus of A in TV

a

65

Locus of B in TV

Line Inclined to both HP & VP- Rotating Line Method

End A of line AB is 10mm above HP and 20mm in front of VP. The other end is 45mm above HP and 65mm in front of VP. The distance between the end projector is 40mm. Draw the projection and find inclinations and true length.   ST 22

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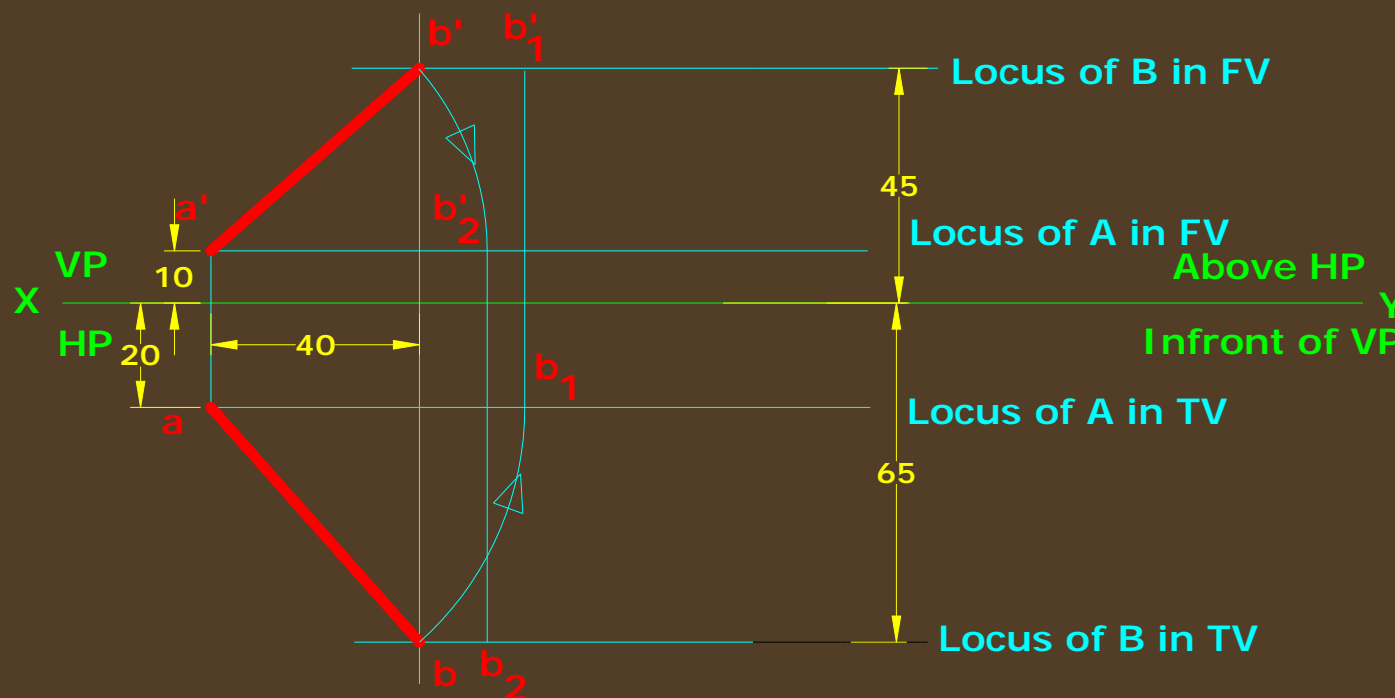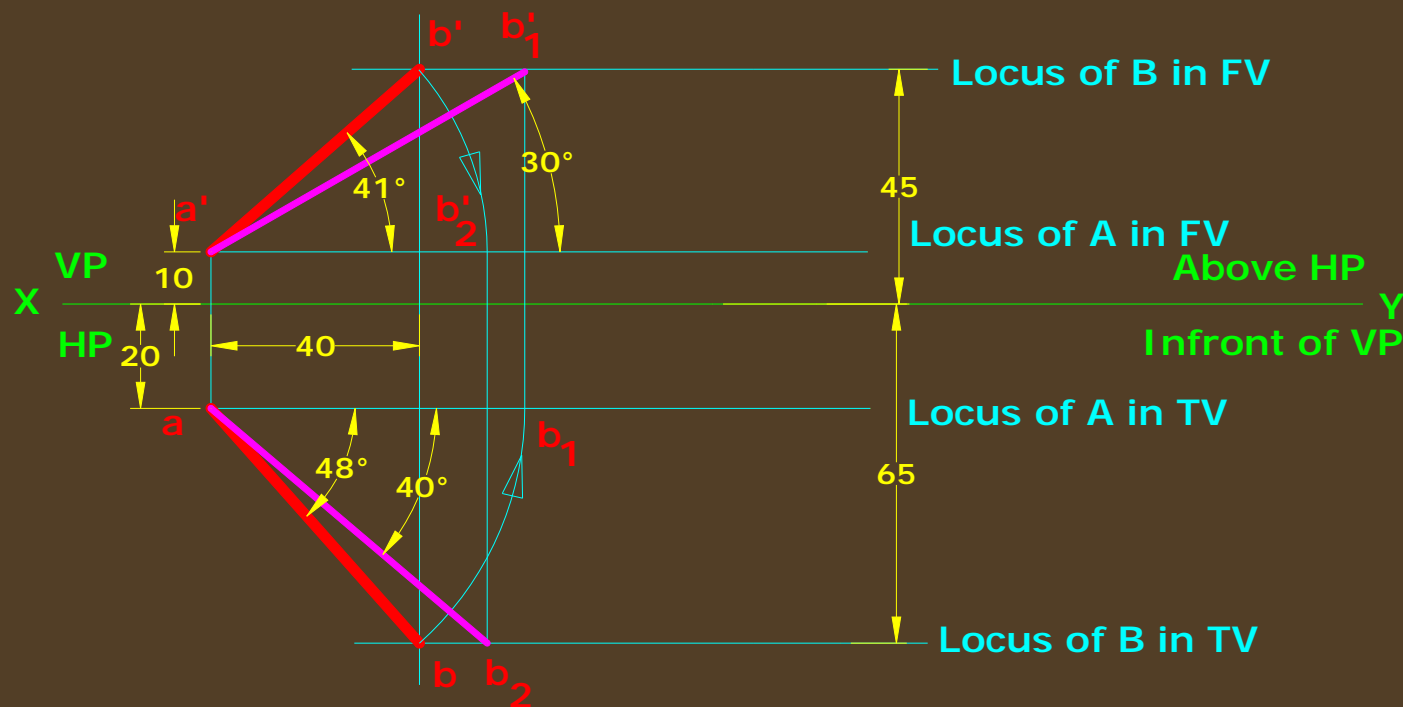
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