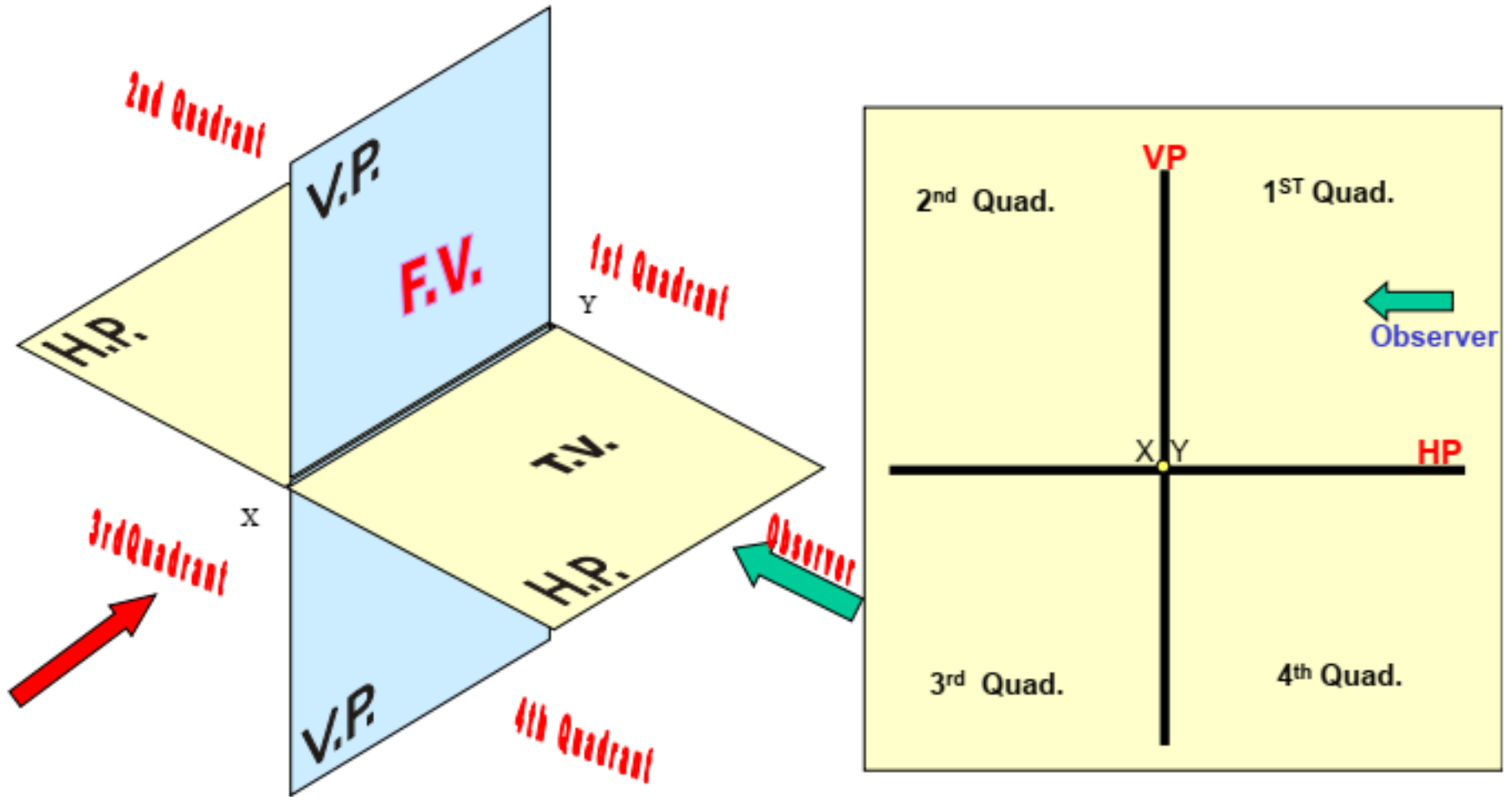


PROJECTIONS OF POINTS

Quadrant Pattern mode



Orientation of Point in Space

- (1) In quadrant *I* (Above H.P & In Front of V.P.)**
- (2) In quadrant *II* (Above H.P & Behind V.P.)**
- (3) In quadrant *III* (Below H.P & Behind V.P.)**
- (4) In quadrant *IV* (Below H.P & In Front of V.P.)**

Orientation of Point in Space

(5) In Plane (*Above H.P. & In V.P.*)

(6) In Plane (*Below H.P. & In V.P.*)

(7) In Plane (*In H.P. & In front of V.P.*)

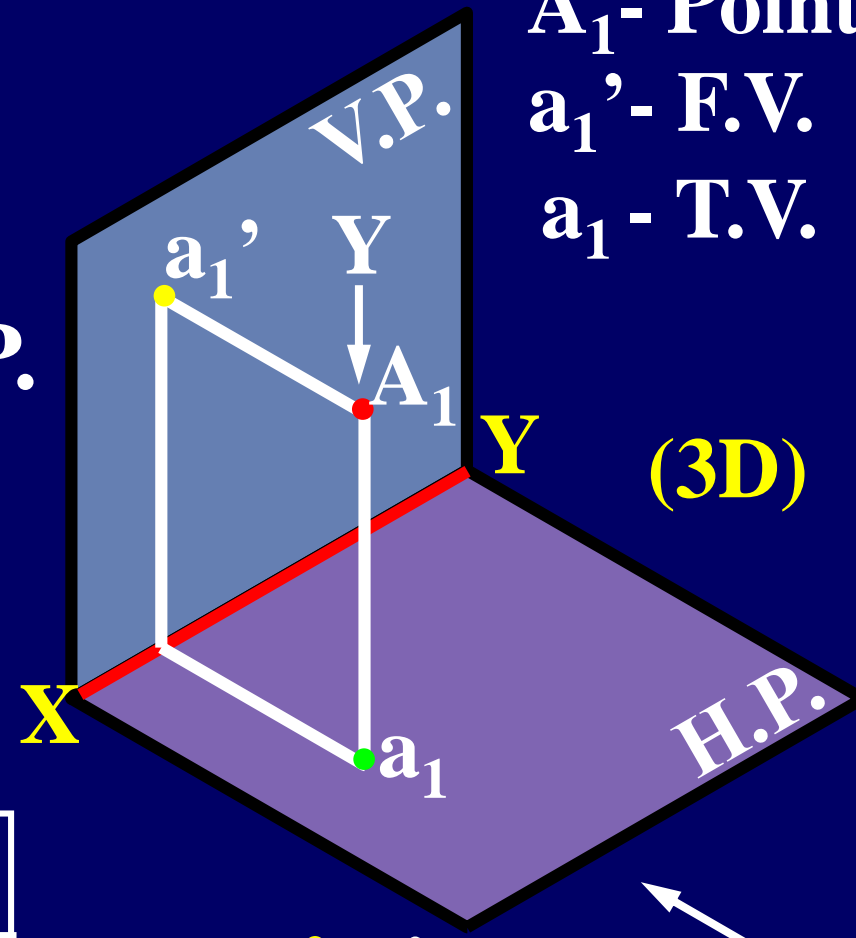
(8) In Plane (*In H.P. & Behind V.P.*)

(9) In Plane (*In H.P. & V.P.*)

POSITION: 1 (I Qua.)

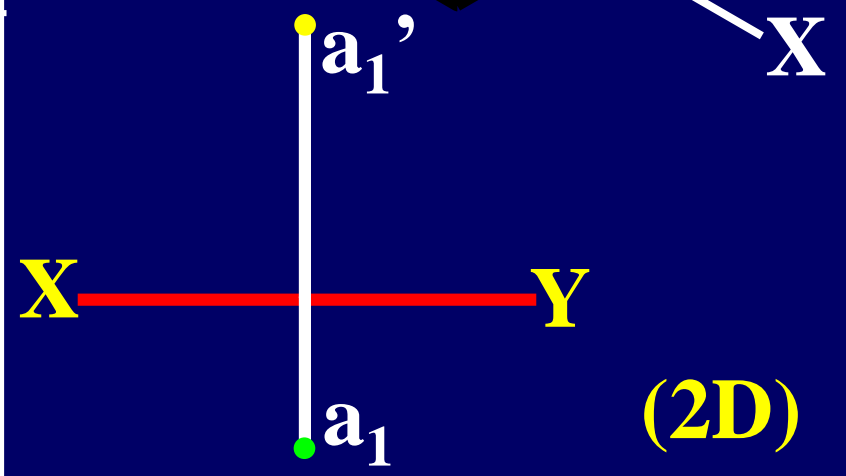
POINT A_1
 — Above H.P.
 — In Front Of V.P.

A_1 - Point
 a_1' - F.V.
 a_1 - T.V.



CONCLUSIONS:

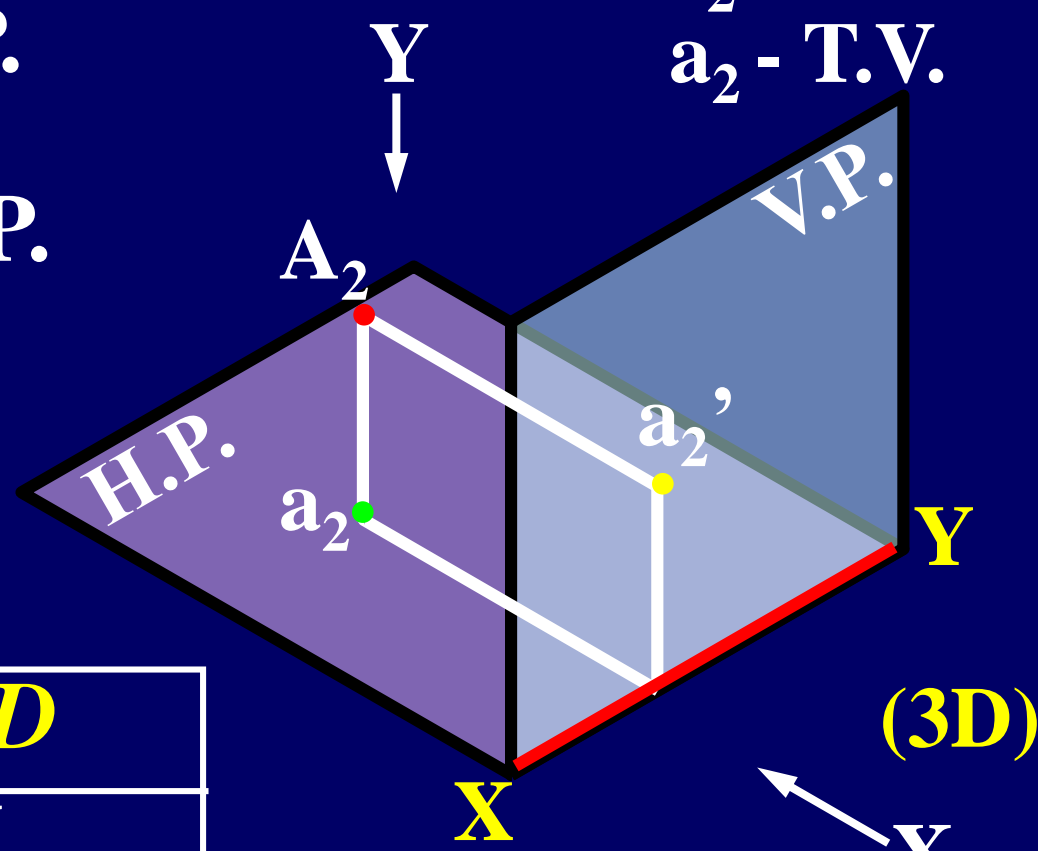
<i>In 3D</i>	<i>In 2D</i>
Point, Above H.P.	F.V. Above XY
Point, In-Front Of V.P.	T.V. Below XY



POSITION:2 (II Qua.)

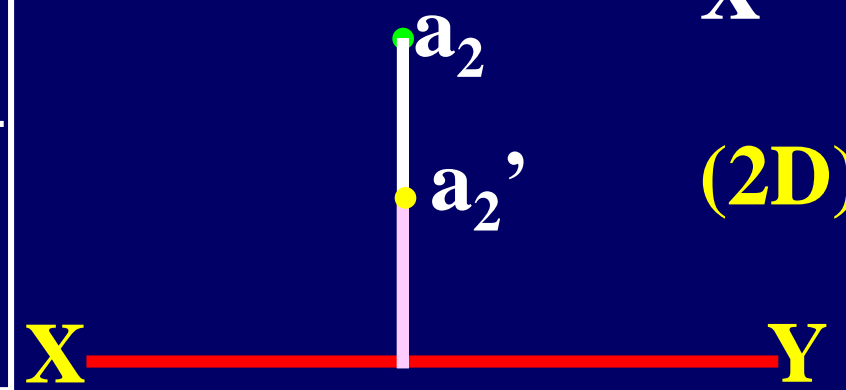
POINT
 A_2 Above H.P.
Behind V.P.

A_2 - Point
 a_2' - F.V.
 a_2 - T.V.



CONCLUSIONS:

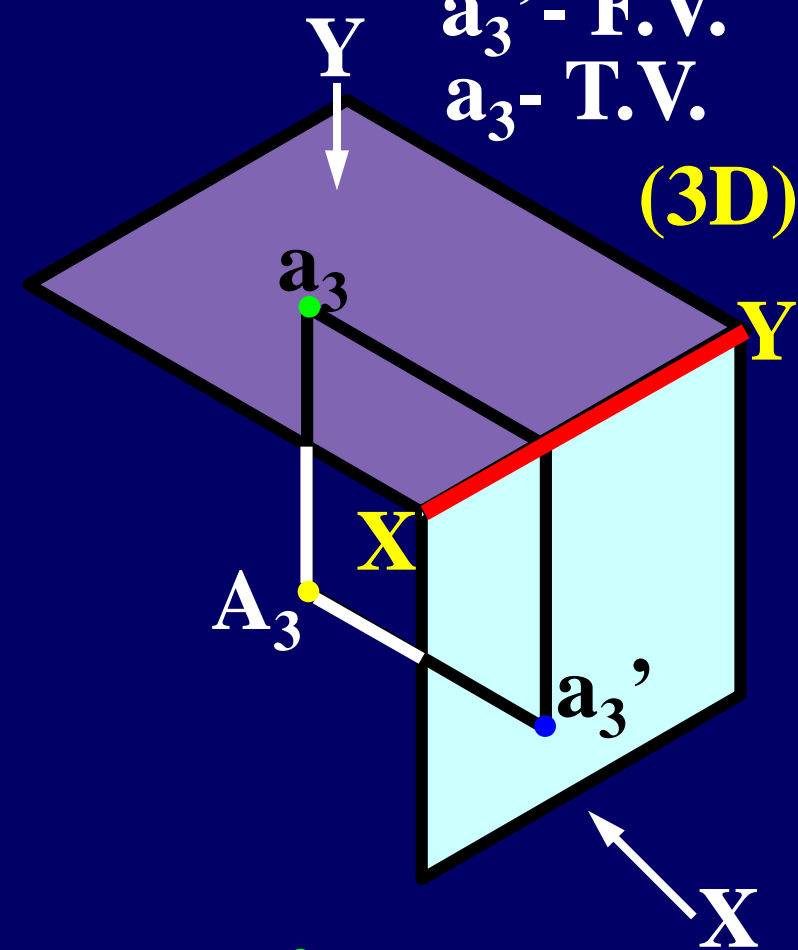
<i>In 3D</i>	<i>In 2D</i>
Point, Above H.P.	F.V. Above XY
Point, Behind V.P.	T.V. Above XY



POSITION: 3 (III Qua.)

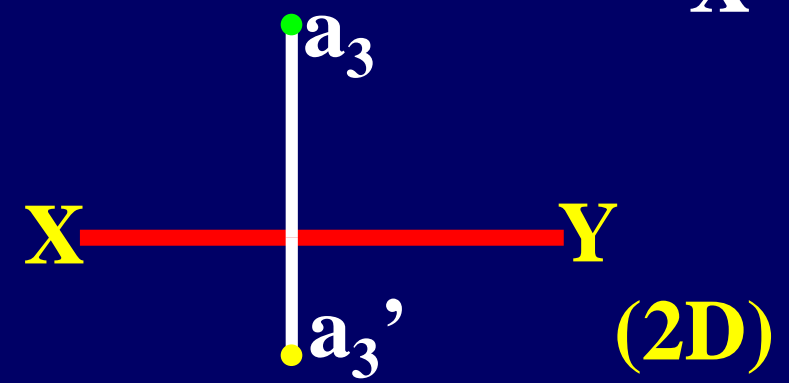
POINT
 A_3 — Below H.P.
 A_3 — Behind V.P.

A_3 - Point
 a_3' - F.V.
 a_3 - T.V.



CONCLUSIONS:

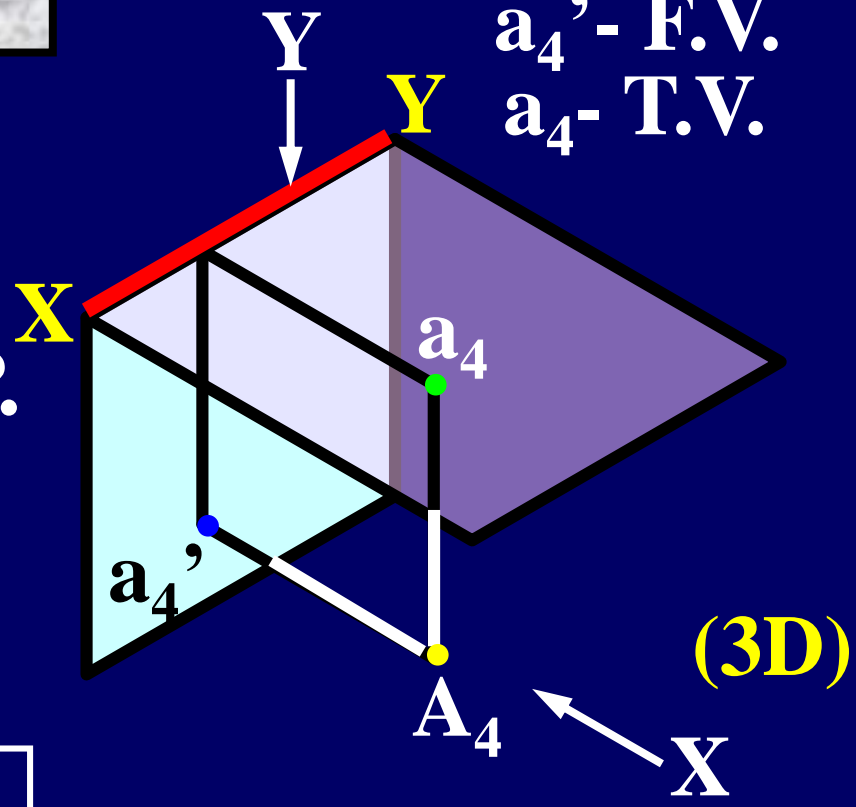
<i>In 3D</i>	<i>In 2D</i>
Point, Below H.P.	F.V. Below XY
Point Behind V.P.	T.V. Above XY



POSITION: 4 (IV Qua.)

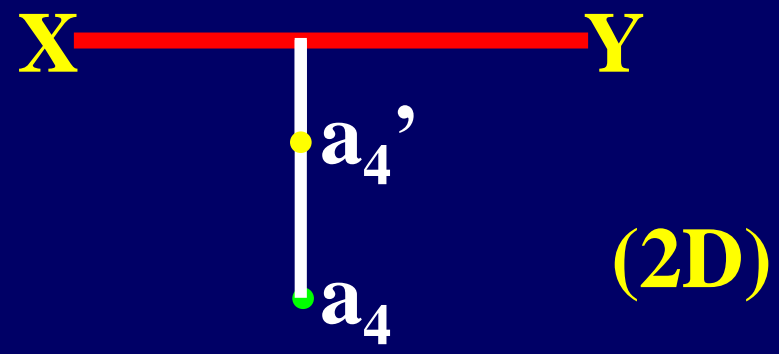
A_4 - Point
 a_4' - F.V.
 a_4 - T.V.

POINT
 A_4 **Below H.P.**
In Front of V.P.



CONCLUSIONS:

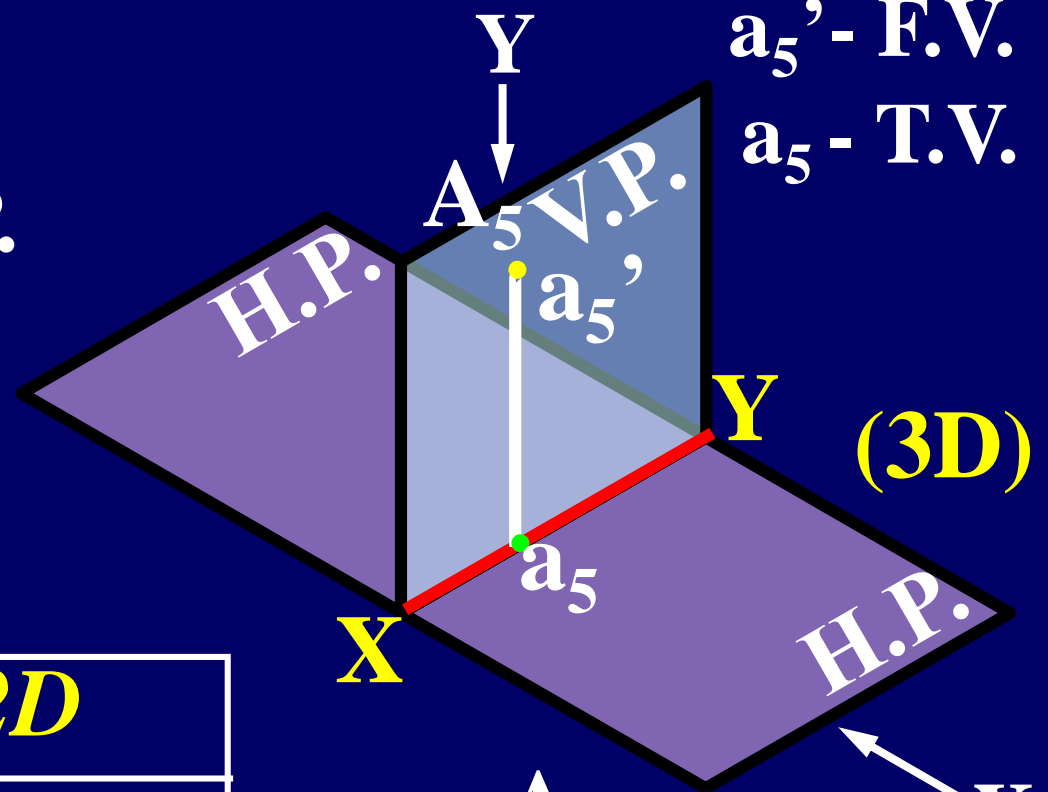
<i>In 3D</i>	<i>In 2D</i>
Point, Below H.P.	F.V. Below XY
Point, In Front Of V.P.	T.V. Below XY



POSITION: 5

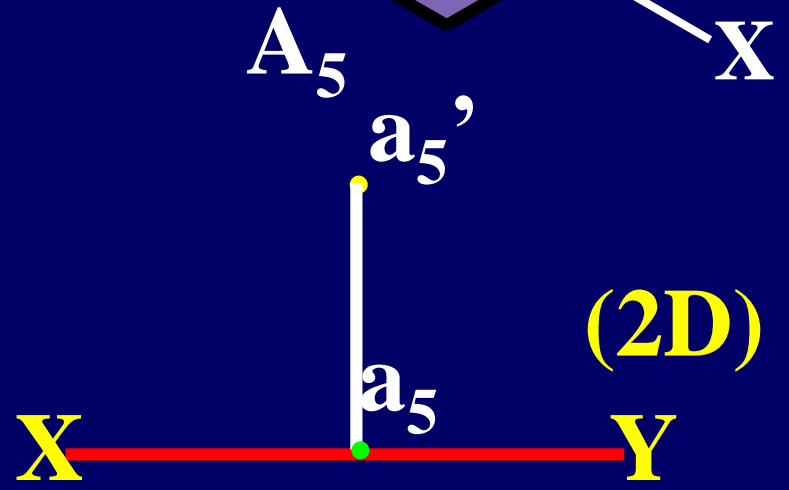
A_5 - Point
 a_5' - F.V.
 a_5 - T.V.

POINT A_5
 - Above H.P.
 - In V.P.



CONCLUSIONS:

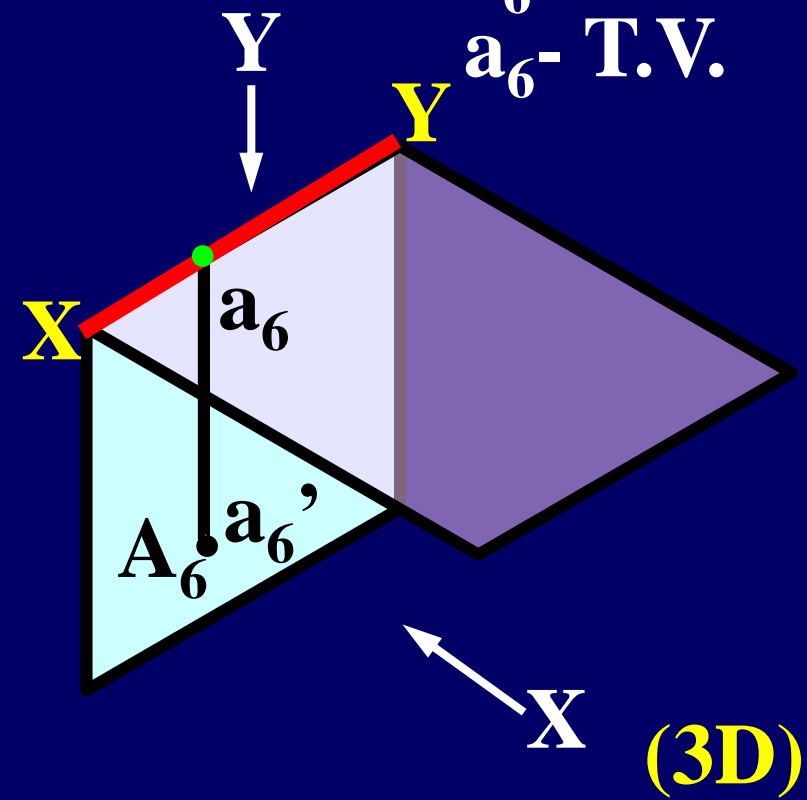
<i>In 3D</i>	<i>In 2D</i>
Point, Above H.P.	F.V. Above XY
Point, In V.P.	T.V. On XY



POSITION: 6

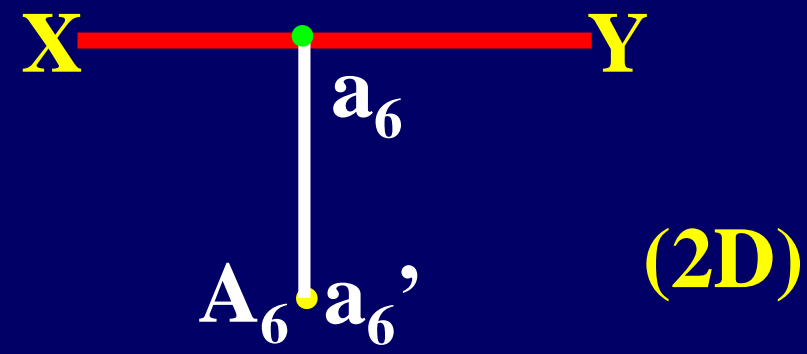
A_6 - Point
 a_6' - F.V.
 a_6 - T.V.

POINT A_6
 { Below H.P.
 { In V.P.



CONCLUSIONS:

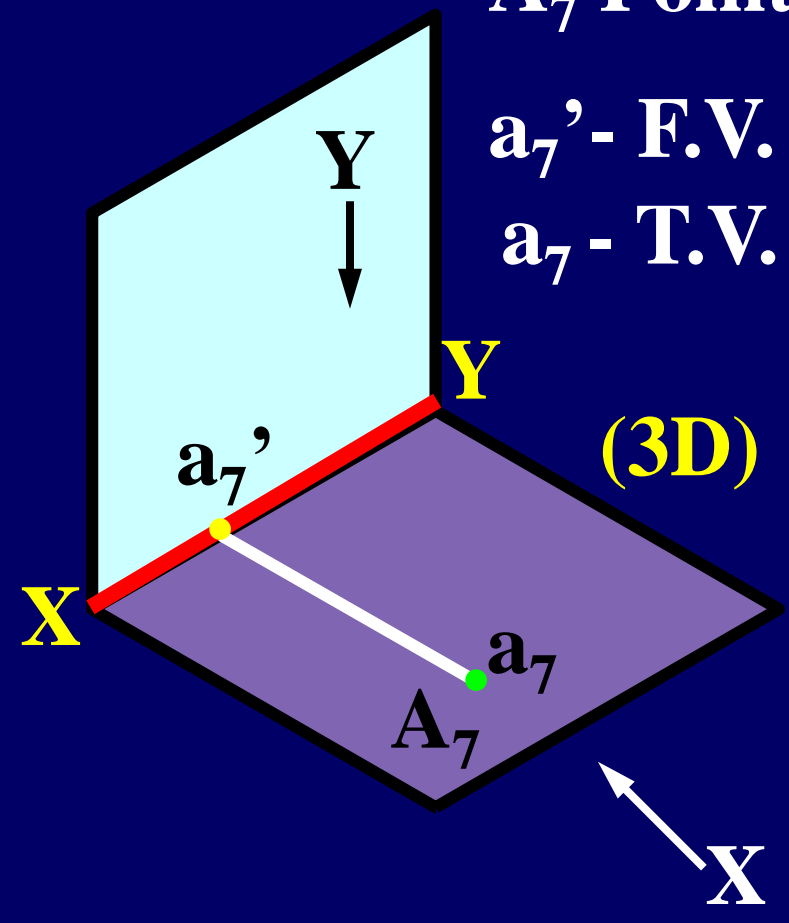
<i>In 3D</i>	<i>In 2D</i>
Point, Below H.P.	F.V. Below XY
Point In V.P.	T.V. On XY



POSITION: 7

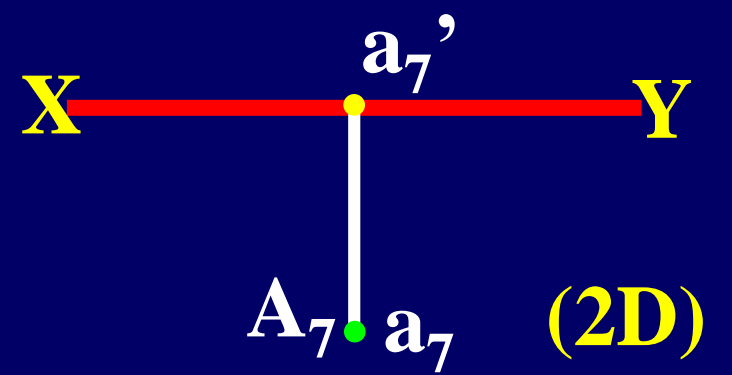
A_7 Point
 a_7' - F.V.
 a_7 - T.V.

POINT A_7
 In H.P.
 In Front of V.P.



CONCLUSIONS:

<i>In 3D</i>	<i>In 2D</i>
Point, In-Front Of V.P.	T.V. Below XY
Point In H.P.	F.V. On XY

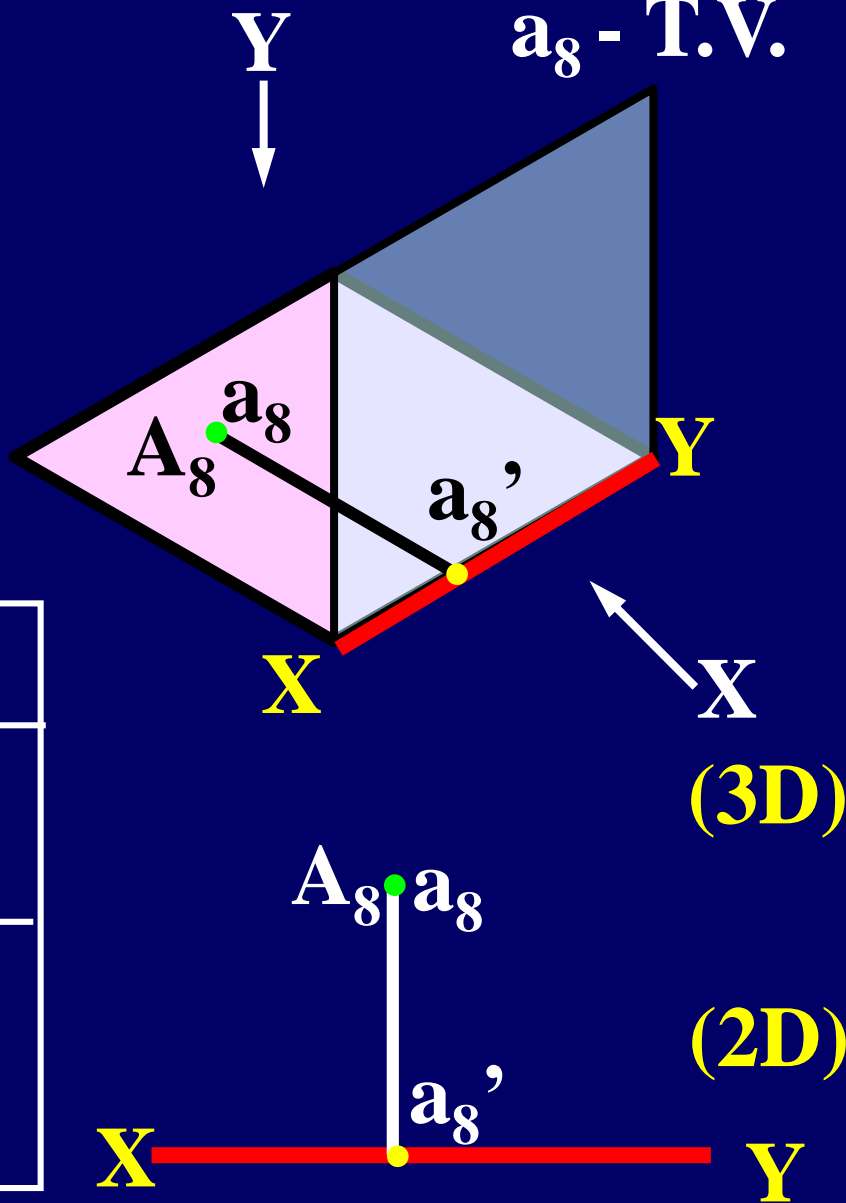


POSITION: 8

A_8 - Point
 a_8' - F.V.
 a_8 - T.V.

POINT A_8 — In H.P.
 — Behind V.P.

CONCLUSIONS:



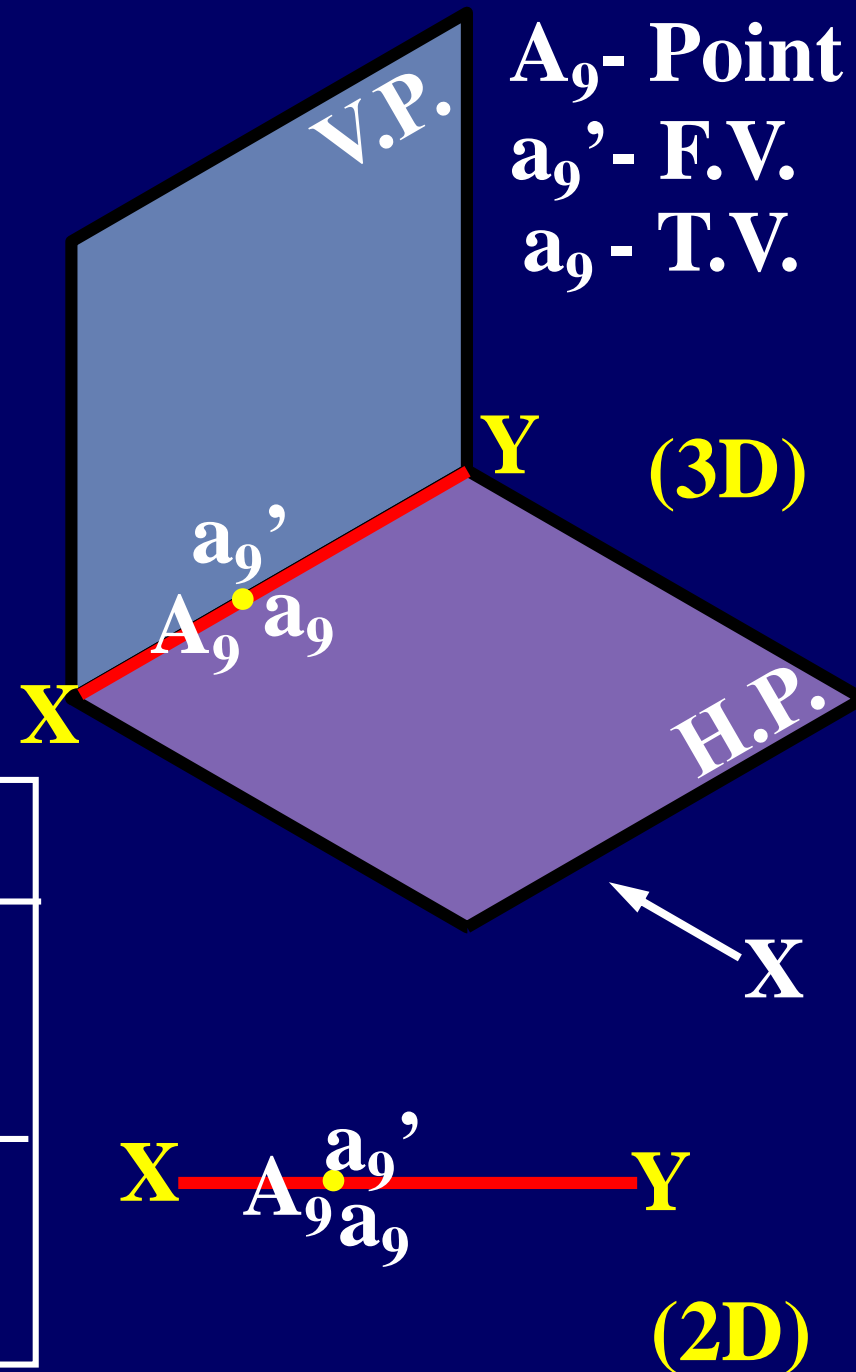
<i>In 3D</i>	<i>In 2D</i>
Point, Behind V.P.	T.V. Above XY
Point, In H.P.	F.V. On XY

POSITION: 9

POINT A_9
 — In H.P.
 — In V.P.

CONCLUSIONS:

<i>In 3D</i>	<i>In 2D</i>
Point, In H.P.	F.V. On XY
Point, In V.P.	T.V. On XY



Model Problems

1. Point P is 30 mm. above H.P and 40 mm. in front of VP
2. Point Q is 25 mm. above H.P and 35 mm. behind VP
3. Point R is 32 mm. below H.P and 45 mm behind VP
4. Point S is 35 mm. below H.P and 42 mm in front of VP
5. Point T is in H.P and 30 mm behind VP
6. Point U is in V.P and 40 mm. below HP
7. Point V is in V.P and 35 mm. above H.P
8. Point W is in H.P and 48 mm. in front of VP
9. Point X lies in both HP and VP