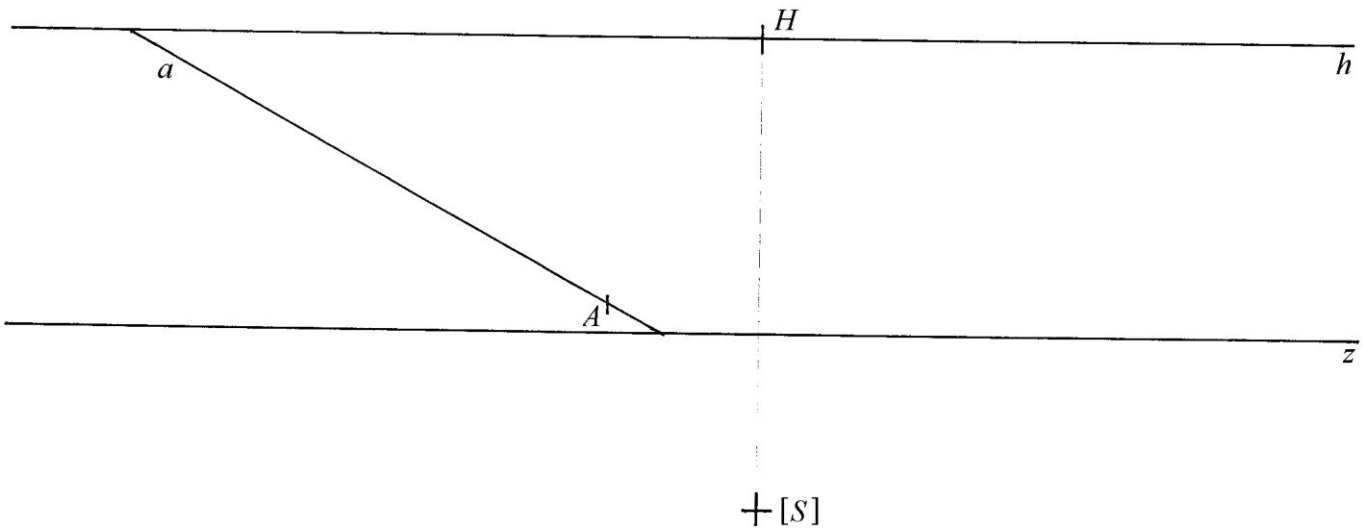
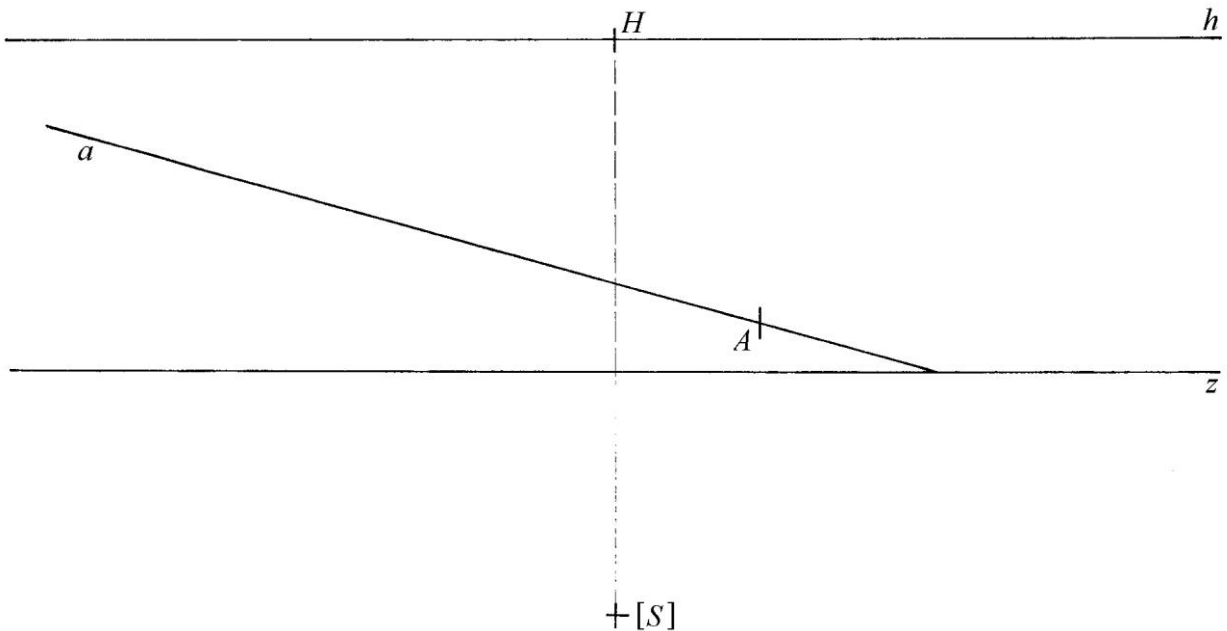


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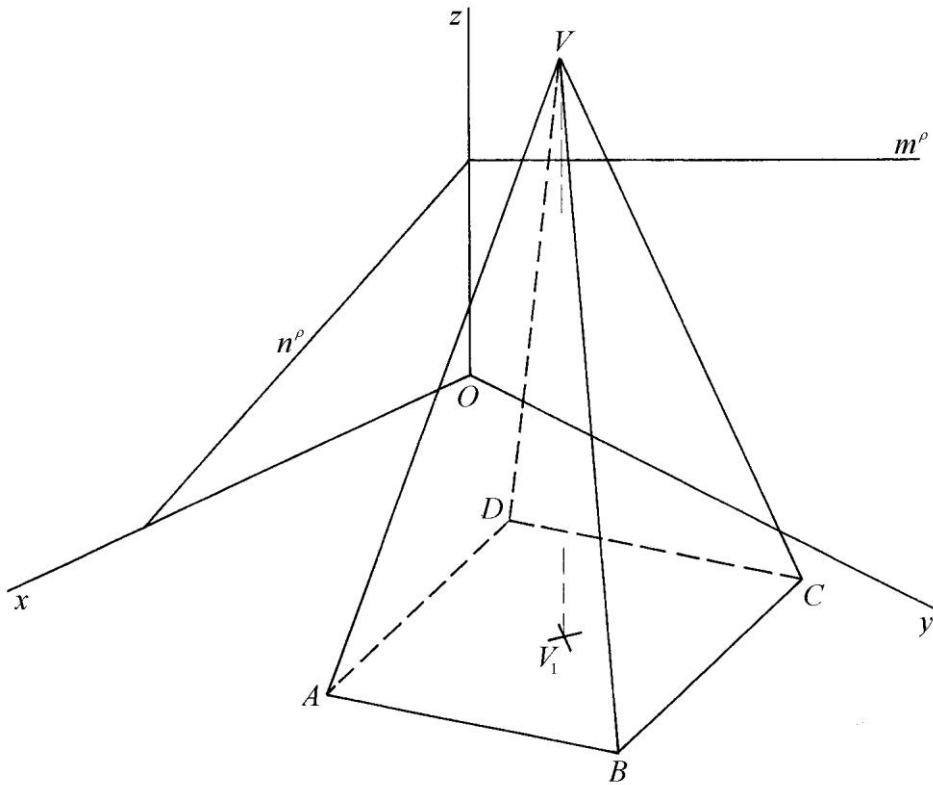
1) In PP ($h, z, H, [S]$): the perspective projection of the straight line a lying in the ground plane and perspective projection of the point $A \in a$ are given. Construct perspective projection of the cube with the base $ABCD$ in the ground plane, the point B is on the line a , the length of the side AB is 50. Highlight the visibility of the cube.
(5 points)



2) In PP ($h, z, H, [S]$): the perspective projection of the straight line a lying in the ground plane and the perspective projection of the point $A \in a$ are given. (The vanishing point of line a is inaccessible.) Construct perspective projection of point B on line a : $|AB| = 70$. In the ground plane construct perspective projection of line p , passing through point A such that the angle between lines a and p is 45° .
(4 points)



3) In orthogonal axonometry construct the plane section of the pyramid with the base in π . Highlight the visibility of the plane section. **(3 points)**



4) In orthogonal axonometry $\triangle XYZ(100, 120, 110)$ construct the projection of the square $ABCD$ lying in π , one vertex $A[60, 70, 0]$ and center $S[40, 40, 0]$ of the square are given. Construct axonometric projection of point $L[80, 75, 100]$. **(5 points)**

5) In orthogonal axonometry construct the intersection of the straight line a with the cylinder, the base of the cylinder in π . Highlight the visibility of the line a . (3 points)

