Draw an Upside-Down Room in Perspective

Original tasks 1, 2 / independent work

Task 1

Construct the same 12 cm by 8 cm room frame with horizon y=4, VP (6,4), near opening corners (0,0), (12,0), (12,8), and (0,8), and far-wall corners (3,2), (9,2), (9,6), and (3,6). Do not rotate yet. Describe where the floor and ceiling edges meet.

Task 2

Draw a 3 cm by 2 cm shelf attached to the ceiling plane of a one-point room. Turn the page 180 degrees around its center. State which plane the shelf touches afterward and what happens to its labels.

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Original tasks 3, 4 / independent work

Task 3

On a 12 cm by 8 cm page, a point inside the pre-rotation floor is at (3,1), measured from the lower-left corner. Turn the page 180 degrees around its center. Find the point's new displayed coordinates and state what happens to a floor-attached table.

Task 4

On a 20 cm by 14 cm page, draw a horizon at y=7 and put VP at (4,7). Turn the page 180 degrees around its center. Give the new VP coordinates and describe the floor-line direction after rotation.