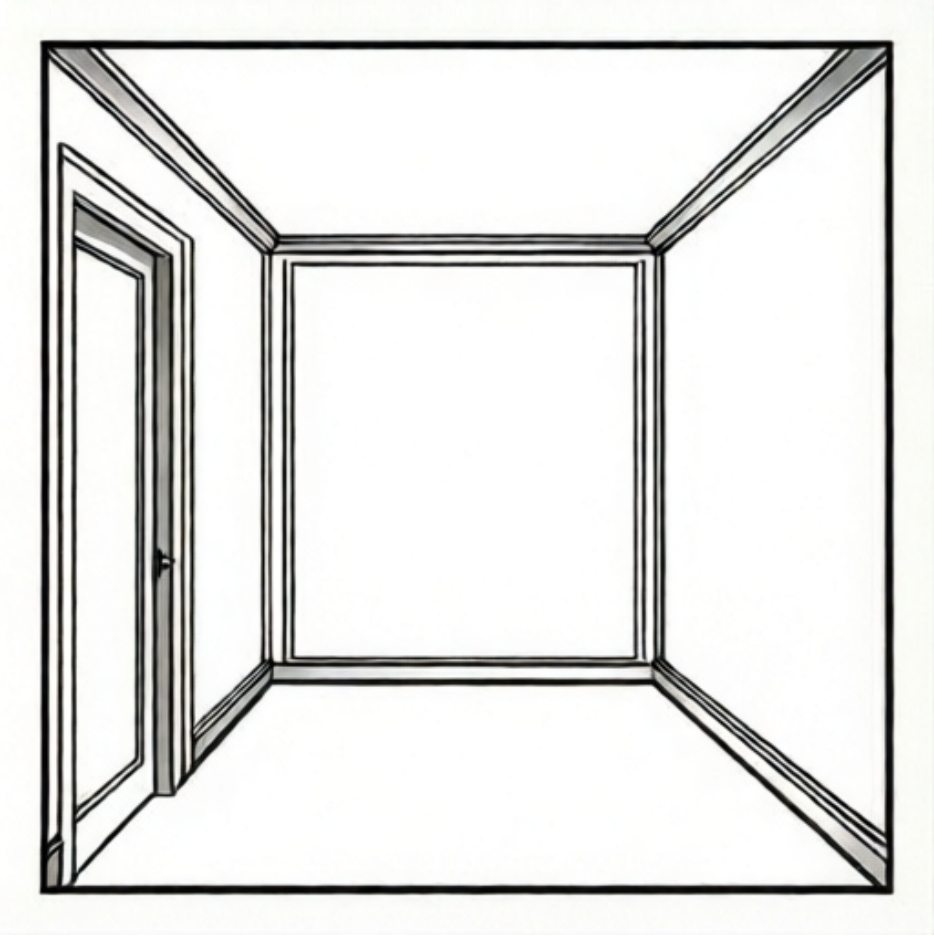
Draw an Upside-Down Room in Perspective

Topic reference / ordinary illustration



Ordinary topic reference. Hypothetical dimensions in the four tasks are supplied in their own text; this illustration is not their measured answer.

Draw an Upside-Down Room in Perspective

Worked example / complete source key

On a 12 cm by 8 cm frame, draw a near opening with corners (0,0), (12,0), (12,8), and (0,8), horizon y=4, and VP (6,4). Add a centered far wall 6 cm by 4 cm. Draw a table on the floor before turning the page; then describe its final attachment.

Answer: The far-wall corners are (3,2), (9,2), (9,6), and (3,6). Connect each to its matching near corner; each line passes through VP (6,4). Close the floor and ceiling trapezoids with horizontal edges. Draw the table on the lower floor plane with its legs pointing down. After turning the page 180 degrees around its center, the table appears attached to the ceiling.

Reason: The far-wall corners lie halfway from the near corners toward the centered VP, so the perspective edges meet at the same point. Page rotation swaps the upper and lower planes.

Check: Check the four far-wall coordinates and verify each receding line is collinear with its near corner and VP. Confirm the table touches the floor before the turn and the ceiling afterward.