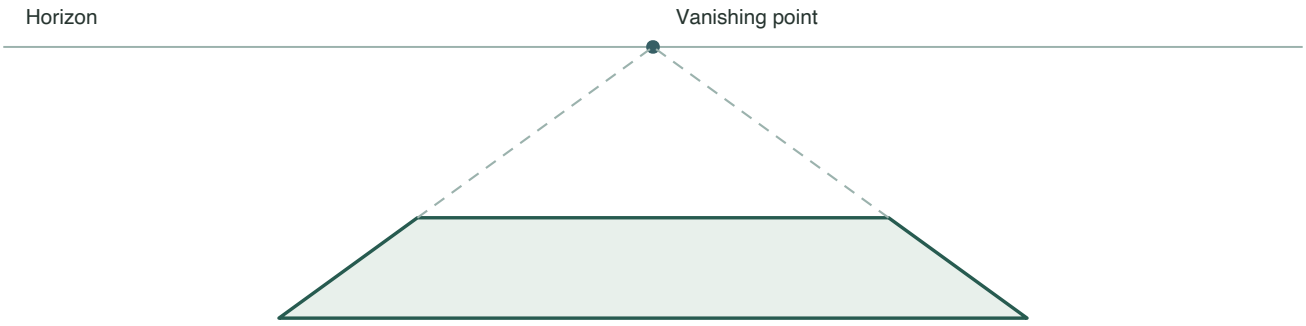
Draw a Desk in One-Point Perspective

Answer | Task 1 of 4 | LETTER

Original prompt

Task 1: Draw a horizon and one vanishing point. Construct only the desk top from a horizontal near edge and two depth-direction side edges aimed at the point; close it with a shorter horizontal back edge.



Answer

Mark the horizon and one vanishing point. Draw one horizontal near edge. From its two endpoints, draw two depth sides toward the point and stop at the chosen far depth. Join those far endpoints with a shorter horizontal back edge to close the top plane. The far cross-edge stays level; it is not a third or fourth ray.

Reasoning

This isolates the top so the learner practices projection before adding legs or drawer.

Check

Every depth edge points at the vanishing point; the back edge is shorter than the front and parallel to it.

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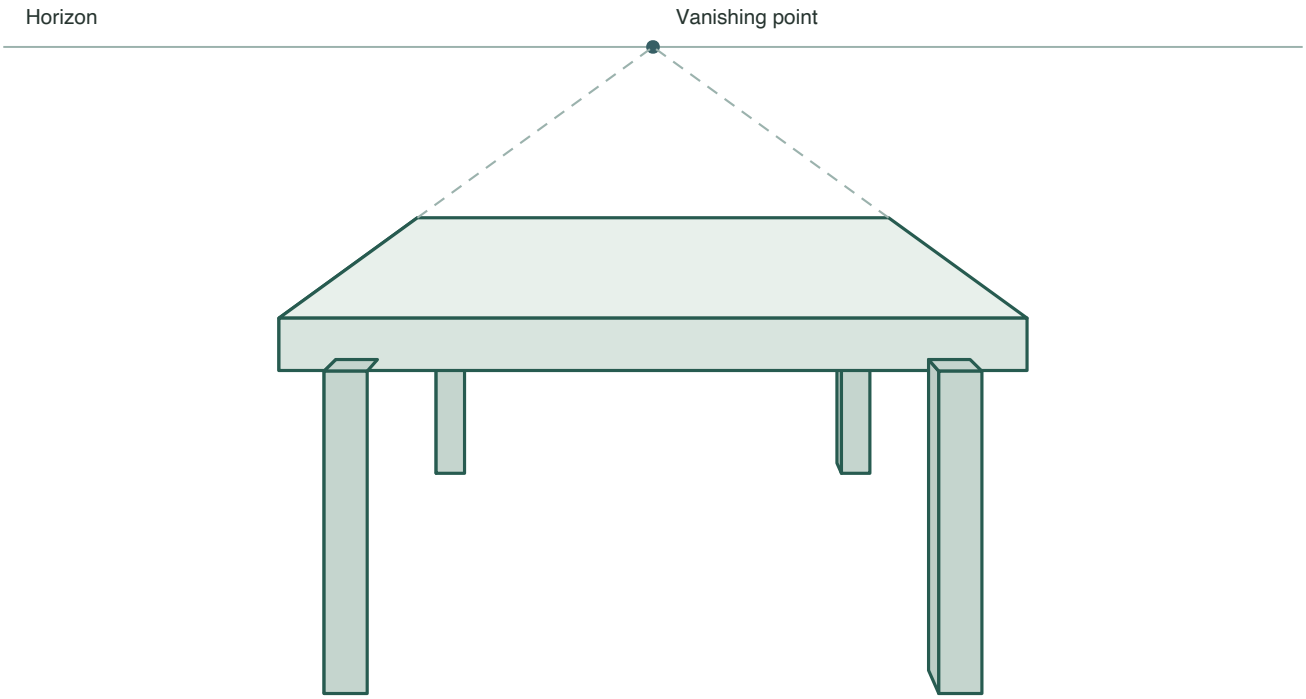
Task 2: Add four legs to the Task 1 top, using vertical front legs and projection lines to place the rear legs at the same depth.



Answer

The four legs share one world height. Front legs descend vertically from the front corners. Project their base corners toward the vanishing point to set the rear-leg base positions, then draw the rear legs vertically to the same world-height plane. Their page lengths are shorter because they are farther from the viewer.

Reasoning

Legs test whether the learner can carry the same vanishing point from the top down to the floor plane.

Check

Check equal world heights, not equal line lengths on the page: the farther rear legs are shorter in the projection. Front and rear verticals remain upright, and the depth connectors aim at the vanishing point.

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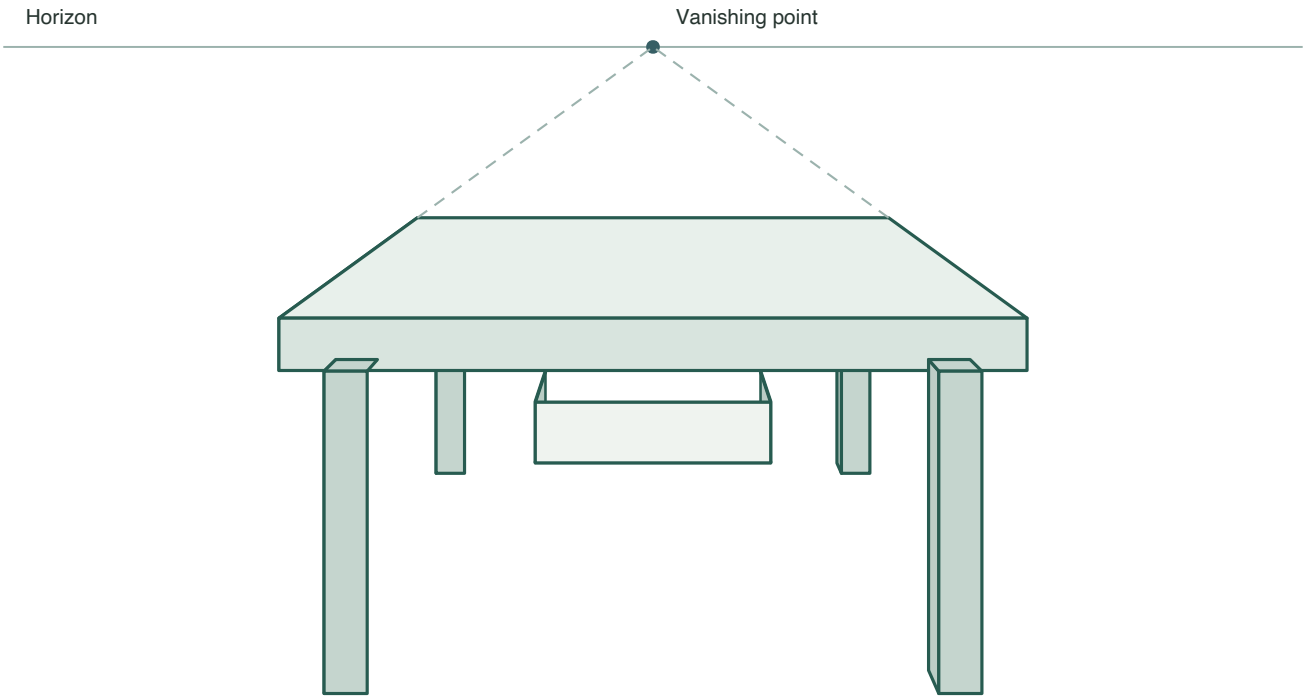
Original prompt

Task 3: Add a front drawer to the desk. Keep its front face horizontal and upright; only its short depth-return edges follow projection lines to the vanishing point.



Answer

Keep the drawer face as a horizontal-and-vertical rectangle on the desk's front-facing plane. Add only the short side returns from its front corners toward the vanishing point to show thickness.

Reasoning

The drawer face stays in the front-facing plane, while only its short returns move into depth. That keeps its front rectangle upright and uses the same vanishing point for thickness.

Check

Check that the drawer face's top and bottom are horizontal and its sides are vertical. Only the short depth-return edges point to the vanishing point.

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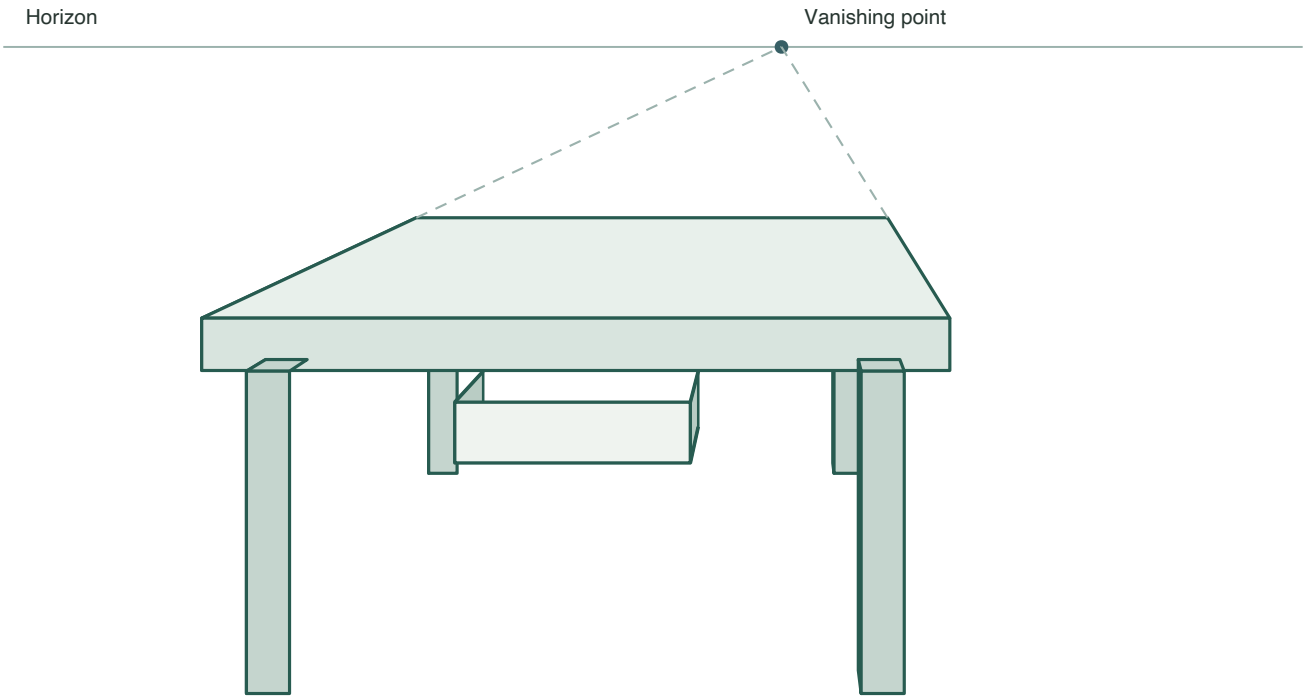
Answer | Task 4 of 4 | LETTER

Original prompt

Task 4: Redraw the complete desk from a different vanishing-point position (left or right of center) and check that all depth edges still converge correctly.



Answer

Same construction steps with the vanishing point moved; front face unchanged in orientation; all depth edges redrawn to the new point; back edge still shorter than the front.

Reasoning

Moving the point tests understanding that the construction rule, not a fixed drawing, controls the result.

Check

All depth edges meet the new vanishing point; front horizontals and verticals remain parallel to the page edges.