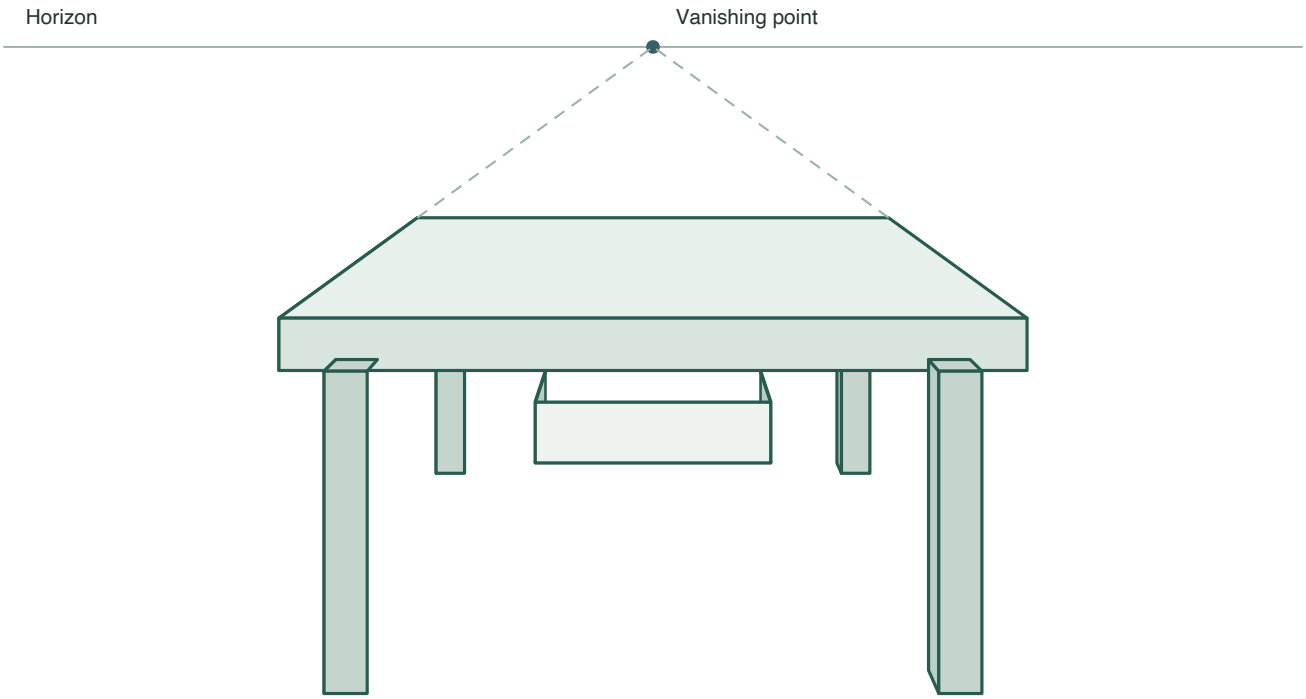
Draw a Desk in One-Point Perspective

Reference | Worked example | LETTER

Original prompt

Construct a simple desk in one-point perspective with a horizon, one vanishing point, a rectangular top, four legs, and a front drawer.



Answer

Place the horizon and vanishing point. Draw the front top edge horizontally, project its two ends toward the point, choose one depth, and close the top with a shorter horizontal back edge. Drop front legs vertically. Project the near leg bases toward the point to locate the rear leg bases, then draw rear legs vertically to the same world-height plane; their projected lengths are shorter because they are farther away. Keep the drawer face horizontal and upright, and aim only its short depth returns at the point.

Reasoning

The front and back cross-edges and drawer face lie in front-facing planes, so their horizontal and vertical directions stay parallel to the page. The side edges and short thickness returns show depth and converge to one point. Equal real leg heights project to different page lengths at different depths.

Check

Check that only edges running into depth meet the vanishing point. Top and drawer cross-edges stay horizontal, drawer sides and legs stay vertical, and the rear legs are shorter on the page while matching the front legs in world height.