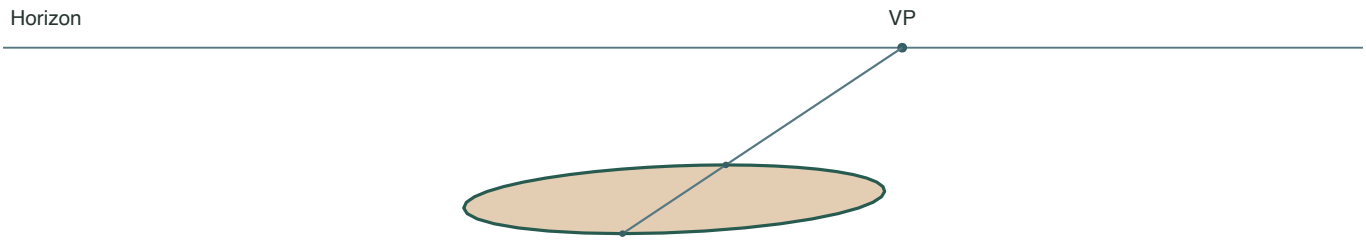
Draw a Round Table in Perspective

Answer | Task 1 of 4 | LETTER

Original prompt

Task 1: Draw a round tabletop ellipse with a horizon and vanishing point. Mark the projected front-to-back diameter and extend it to the vanishing point.



Blue line through the tabletop: depth diameter

Answer

The answer shows a horizon, its depth point and an ellipse below it. The blue guide runs through the ends of the projected front-to-back diameter and reaches the depth point.

Reasoning

All lines running in the selected depth direction converge to the same point in this level view. The diameter is a construction line through the real tabletop circle.

Check

Extend the depth diameter to the marked point. Check that the rim crosses that guide at the projected near and far ends.

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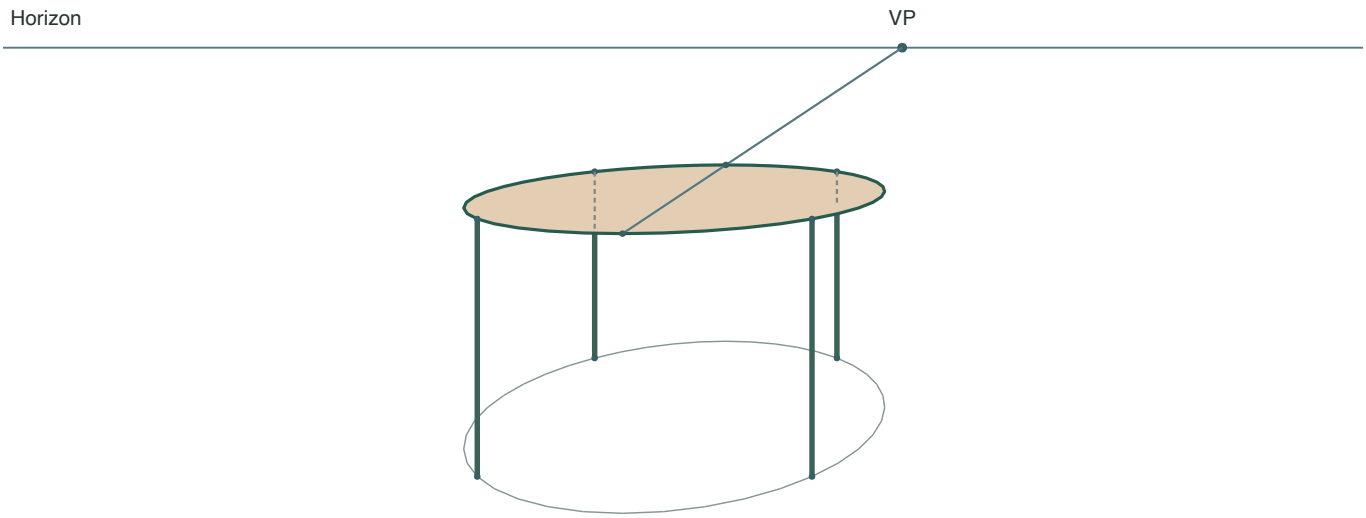
Task 2: Add four leg attachment points on the tabletop rim. Project the same circular footprint at floor level and draw upright legs to the four corresponding points.



Blue line through the tabletop: depth diameter

Dotted leg parts are hidden. Pale ring marks the footprint.

Answer

Four upright legs connect the top rim to corresponding locations on the lower footprint. The dotted parts of the two far legs are hidden by the tabletop.

Reasoning

The tabletop and footprint are circles of the same radius in parallel planes. Different heights above the ground change how the circles appear. Each upright leg keeps the same left and right and front and back ground coordinates.

Check

Match each attachment to the foot directly below it in the drawing. Confirm the floor contacts follow the lower projected circle and the tabletop creates the shown overlaps.

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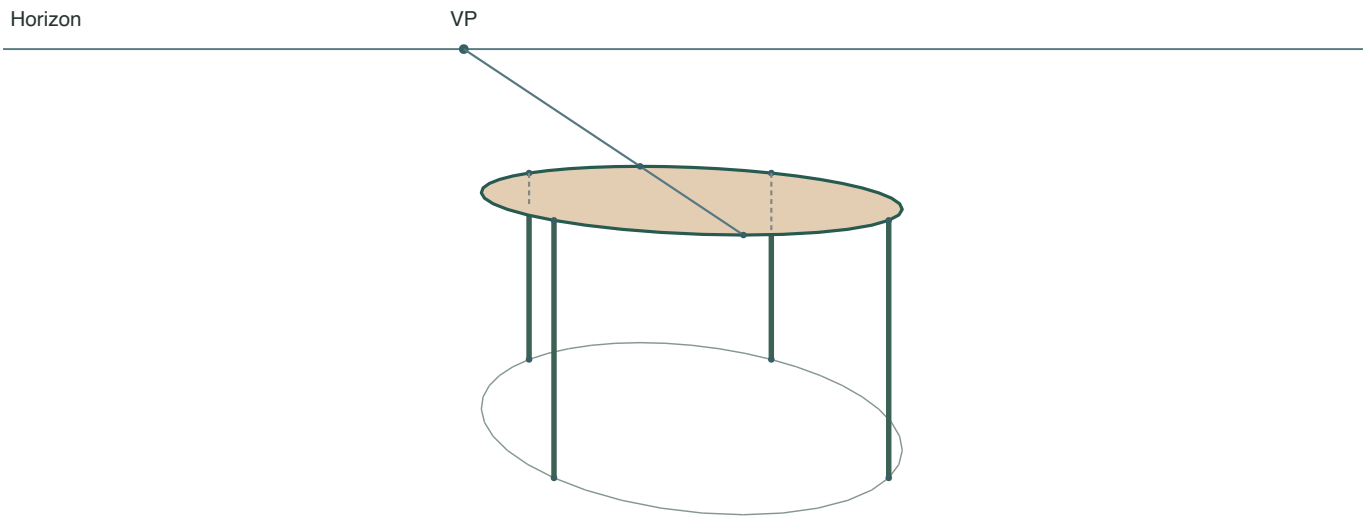
Task 3: Redraw the table with the vanishing point moved to the left, keeping the same tabletop size.



Blue line through the tabletop: depth diameter

Dotted leg parts are hidden. Pale ring marks the footprint.

Answer

The mirrored view shows the depth point on the left. The projected depth diameter points left, the same four legs stay vertical, and the footprint stays directly below the fixed round tabletop in the scene.

Reasoning

The eye shifts sideways without turning. In the second drawing a shifted crop places the fixed depth direction left of the table. The table keeps its physical diameter and viewing depth. Its side placement changes the apparent tilt and overlap.

Check

Check the depth guide at the new placement. The legs and footprint belong to the same physical table.

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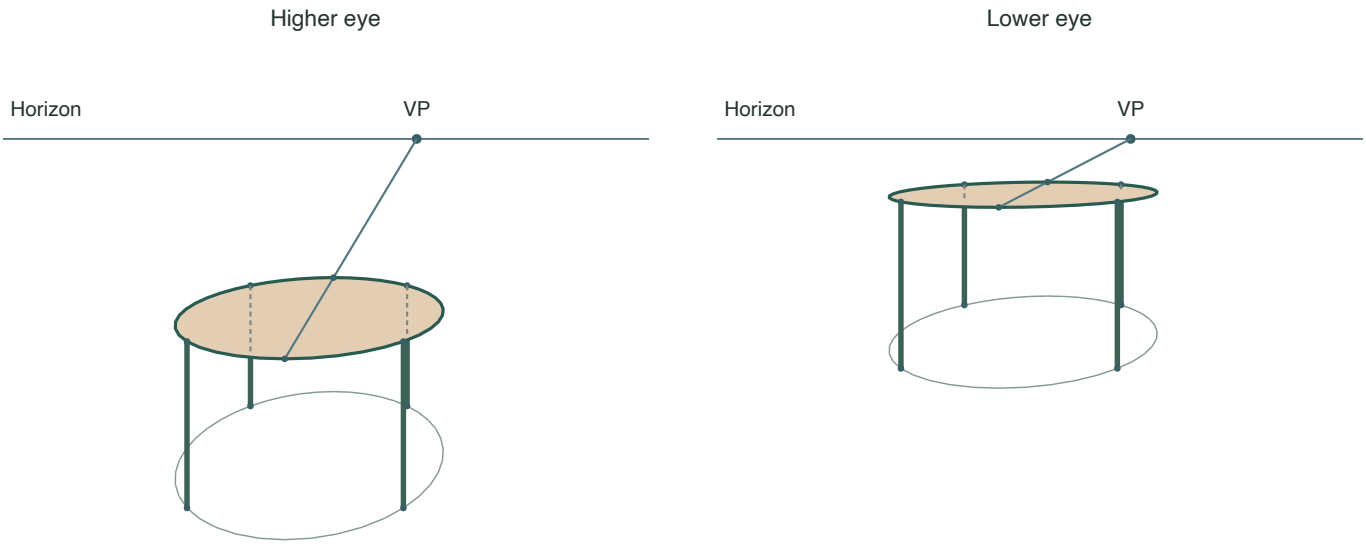
Task 4: Draw a round table seen from a higher eye level (rounder ellipse) and one from a lower eye level (flatter ellipse), side by side.



Blue line through the tabletop: depth diameter

Dotted leg parts are hidden. Pale ring marks the footprint.

Answer

The higher eye shows a wider opening at the top. The lower eye shows a flatter tabletop. Both drawings keep the same size table, upright legs and aligned ground contacts.

Reasoning

For these two level views, distance and framing stay fixed. Raising the eye increases the angular separation of the near and far rim, giving the higher view the rounder ellipse.

Check

Compare the opening of the two tabletop ellipses. Match each depth guide to its point and each of the four legs to the corresponding footprint position.