Draw a House Orthographic Projection

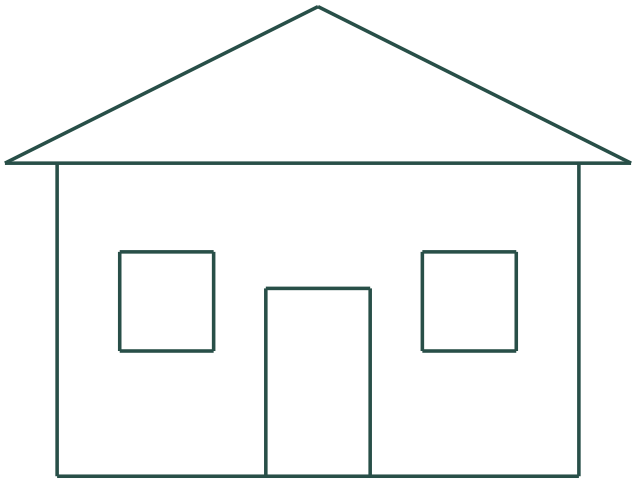
Answer | Task 1 of 4 | A4

Original prompt

Task 1: Draw the front view of the chosen house on its own, with the body rectangle, roof triangle, door and two windows.

Given

Use the chosen house on the reference sheet for all four tasks. Its front is the gable end, with a centered door and two level windows. The left wall has one window. The roof extends past the walls.



Front

Answer

A rectangle for the body, a triangle above for the roof, a centred door, and one window on each side of the door.

Reasoning

The front view shows only the wall facing the viewer, so the roof appears as a triangle and the door and windows appear as flat shapes on the wall.

Check

Check that the door is centred and the two windows are level with each other.

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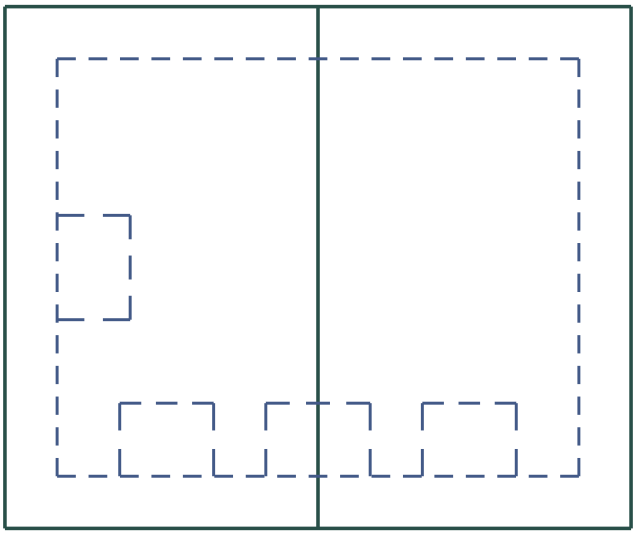
Answer | Task 2 of 4 | A4

Original prompt

Task 2: Draw the top view of the chosen house, showing the wall outline, the ridge line and the positions of the door and windows.

Given

Use the chosen house on the reference sheet for all four tasks. Its front is the gable end, with a centered door and two level windows. The left wall has one window. The roof extends past the walls.



Top

Dashed: wall and openings beneath the roof. Solid: roof outline and ridge.

Answer

A rectangular roof footprint split into two strips by the centre ridge running front-to-back. Inside it, show the wall footprint and the door/front-window/side-window positions as dashed guides because the roof overhang hides them from above.

Reasoning

In this chosen house the roof overhang covers the walls in the top view. The roof outline and ridge are visible; the wall footprint and opening positions are hidden and therefore shown as dashed location guides.

Check

Check the outer roof footprint and centre ridge, then verify that the dashed wall and opening guides align with the front and side views along the projection axes.

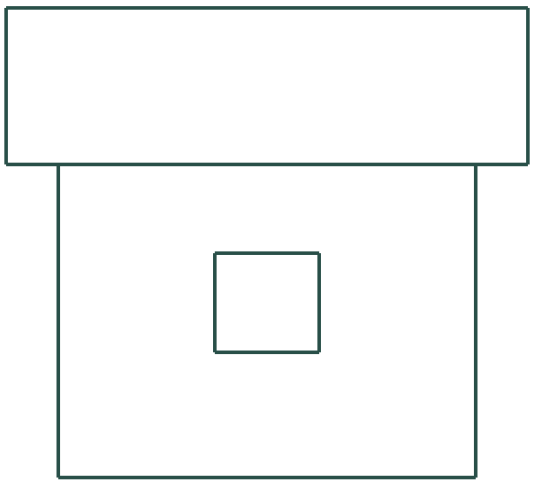
Draw a House Orthographic Projection

Original prompt

Task 3: Draw the side view of the chosen house, showing the body rectangle, the roof slope and the side window.

Given

Use the chosen house on the reference sheet for all four tasks. Its front is the gable end, with a centered door and two level windows. The left wall has one window. The roof extends past the walls.



Left side

Answer

A rectangular side wall with one side window, plus a rectangular roof band above it. Its lower horizontal edge is the eave at wall-top height; its upper horizontal edge is the higher ridge line.

Reasoning

The left-side view looks across the front-to-back ridge. The ridge and eave remain horizontal at different heights, so the side view shows a rectangular roof band; the triangular gable appears in the front view.

Check

Check that the body and roof band are rectangles, the side window is on the wall, the eave aligns with the wall top, and the higher ridge aligns with the front gable peak.

Draw a House Orthographic Projection

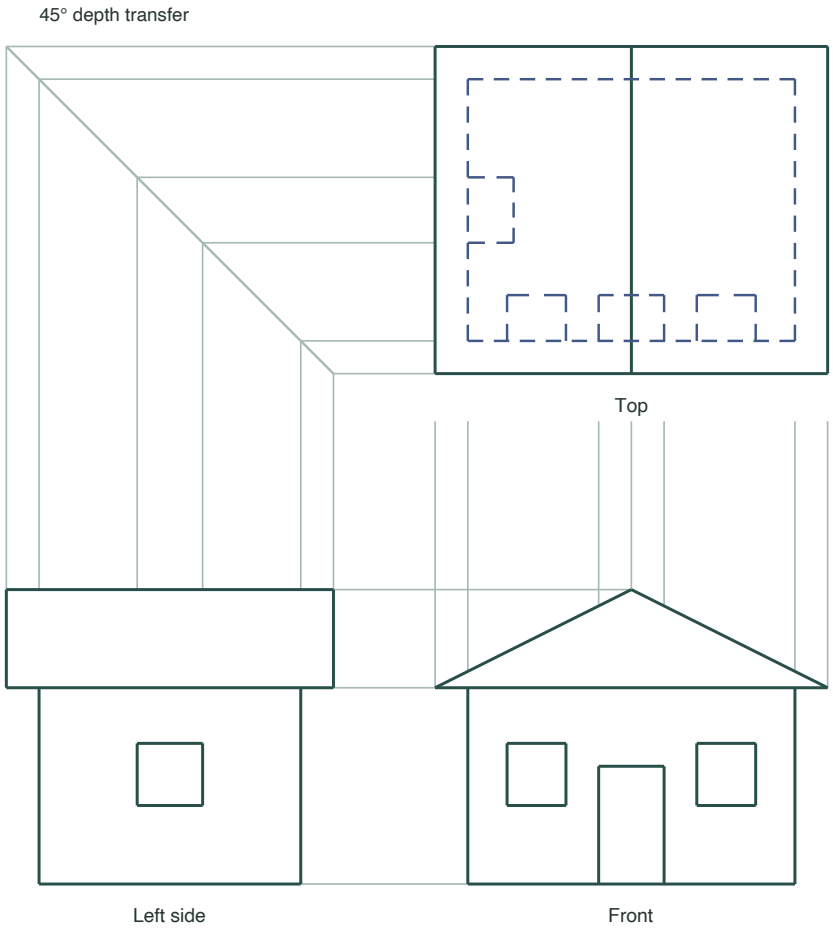
Answer | Task 4 of 4 | A4

Original prompt

Task 4: Draw the complete aligned plate with all three views and the projection axes linking them.

Given

Use the chosen house on the reference sheet for all four tasks. Its front is the gable end, with a centered door and two level windows. The left wall has one window. The roof extends past the walls.



Light: projection guides. Dashed blue: covered wall and opening positions.

Answer

Front: body rectangle, centred door, two front windows and triangular gable. Side: body rectangle, side window and rectangular roof band with lower eave and higher ridge. Top: rectangular roof footprint split by the centre ridge, with the wall footprint and all opening positions shown as dashed hidden guides.

Reasoning

Each view shows the same overhanging gable-roof house from a different direction. The ridge is front-to-back; its height, the eave height and the feature positions must align across the front, side and top views.

Check

Trace the front-to-top vertical axes and the front-to-side horizontal axes. Check depth transfer through the 45-degree miter: vertical projectors run from the side elevation to the miter line, then horizontal projectors run from the miter points into the plan. Confirm the gable peak matches the side ridge height, the wall top matches the eave, and the dashed top-view guides align with the wall openings.