Axonometric Chair Drawing: Three-Axis Block-In and Seat Plane

Original task 1 / independent drawing and calculation

Task 1

Construct a chair with a 4-by-3 seat, 3-unit legs, and a 4-unit back using H vertical, W at 30 degrees right, and D at 30 degrees left. All units are hypothetical.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

Redraw the same chair but raise the seat by 2 units along H while keeping the leg length 3 units. Describe the new positions.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

A student draws a seat 5 units wide along W and 4 units deep along D but closes it with a horizontal line. Identify the error and state the correction.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 4 / independent drawing and calculation

Task 4

Design a chair with a 7-by-4 seat and 5-unit legs, but choose your own receding angles and label them. State one check you will use.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.