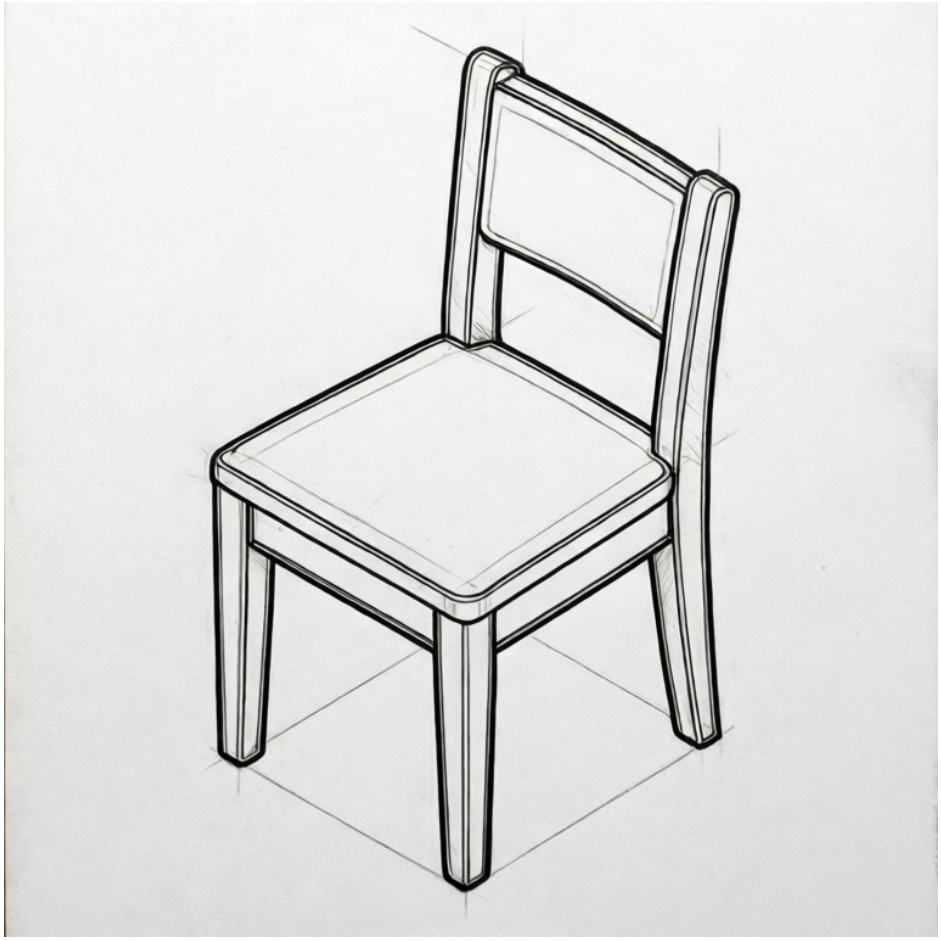
Isometric Chair Drawing on Three Axes

Topic reference / ordinary illustration



Ordinary topic reference. Hypothetical dimensions in the four tasks are supplied in their own text; this illustration is not their measured answer.

Isometric Chair Drawing on Three Axes

Worked example / complete source key

Using hypothetical dimensions, draw a simple chair with a seat 30 units wide, 20 units deep, and 3 units thick; four legs 25 units tall and 3 units square; and a backrest 30 units tall above the seat. Describe the construction in order.

Answer: Start with the three-axis origin. Draw the seat top as a parallelogram: 30 units along width, 20 units along depth, with opposite edges parallel. Drop each corner 3 units vertically and connect the lower corners for thickness. Mark four leg positions under the seat corners. Draw each leg as a vertical prism 25 units tall with a 3-unit square top. From the two rear seat corners, extend vertical posts 30 units above the seat. Connect the post tops with a width-axis rail. Erase construction lines and check that all edges follow height, width, or depth. As a check, count units along each axis: seat 30 by 20 by 3, legs 25 tall, backrest posts 30 tall, rail 30 wide; confirm every edge is parallel to one of the three axes and all four leg bottoms share one ground level.