Drawing a Sitting Person: Hip Angle and Leg Placement

Ordinary topic reference / separately checked pixels



Drawing a Sitting Person: Hip Angle and Leg Placement

Original worked example / unchanged complete key

Prompt: Construct a seated figure with a hip angle of 90 degrees, a knee angle of 90 degrees, and a vertical lower leg. Use a head unit of 1. The torso is 2.5 units, the thigh is 1.5 units, and the lower leg is 1.5 units. Describe the guide lines and the chair support.

Answer: Draw the hip point. Draw the torso line upward 2.5 units. Draw the thigh line horizontally 1.5 units from the hip; the hip angle is 90 degrees. Mark the knee at the end of the thigh. Draw the lower-leg line downward 1.5 units; the knee angle is 90 degrees. Mark the ankle and foot. Draw the chair seat as a horizontal line meeting the thigh near the hip and supporting it along its length. Draw the chair back as a vertical line meeting the torso behind the hip. Check: the torso is vertical and the lower leg is vertical, so they are parallel and the total turn from torso to lower leg is 0 degrees. The hip turn of 90 degrees and the knee turn of 90 degrees are in opposite rotational directions, so they cancel: 90 minus 90 equals 0. This matches the drawing.