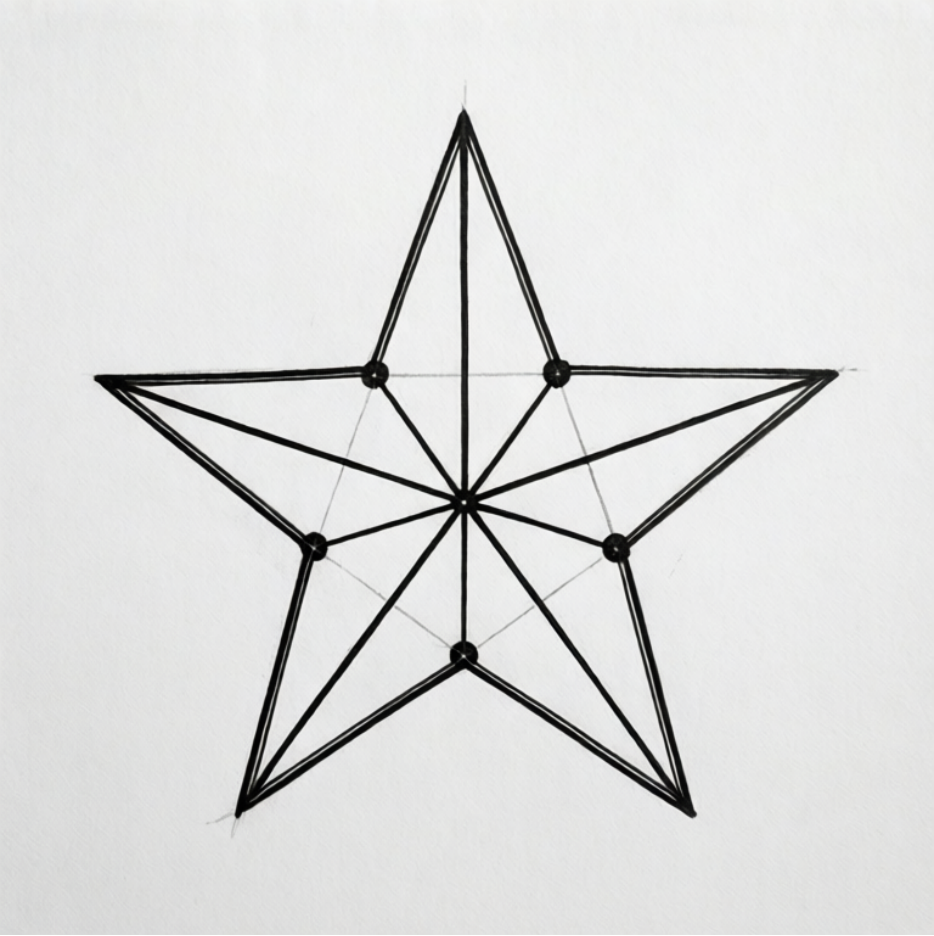
Draw a White Star: Point-Spacing Construction and Tracing Practice

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.

Draw a White Star: Point-Spacing Construction and Tracing Practice

Worked example / complete source key

Construct a five-pointed white star on a circle of radius 6 cm using equal spacing. Mark outer points at 72-degree intervals, place inner points at a hypothetical chosen inner radius of 2.5 cm on the bisector lines, connect in star order, and describe one check.

Answer: Draw the 6 cm circle and mark the top outer point. Divide the circle into five equal arcs of 72 degrees and mark the other four outer points. Draw symmetry lines from the center through each midpoint between adjacent outer points. On each such line, mark an inner point at 2.5 cm from the center; this is a chosen aesthetic value, not a fixed regular-star value. Connect outer to inner to outer in star order around the circle. Check by measuring the five chord distances between adjacent outer points; they should be equal within measurement uncertainty, and the five center-to-inner-point distances should all be about 2.5 cm.