Realistic Star Drawing: Point Geometry and Glow Shading

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.

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Worked example / complete source key

Construct a five-point star with radius r = 30 mm. Calculate the chord length for 72-degree spacing, describe the glow zones using a hypothetical value scale of 1 to 5, and state where to place facet highlights if the light comes from the upper right.

Answer: Chord = 2 × 30 × sin(36°) ≈ 35.3 mm. Mark five points at 72-degree intervals using this chord. Glow zones: background value 2, outer falloff value 3, core value 5. Facet highlights go on the upper-right edge of each facet, with shadows on the lower-left edge. Check that all points lie on the circle and that the value changes smoothly from core to background.