Draw Horns with Taper and Curve Construction

Ordinary topic reference / separately checked pixels



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Original worked example / unchanged complete key

Prompt: Draw a curved horn with a circular cross-section. Use a centerline arc, five intervals, and widths of 3.0 cm, 2.4 cm, 1.8 cm, 1.2 cm, and 0.6 cm from base to tip. These are hypothetical example values. Describe the construction and the final check.

Answer: Draw a smooth arc about 12 cm long. Mark five intervals at roughly equal spacing along the arc. At each interval, draw a short line perpendicular to the arc, centered on it, with the listed widths. Connect the ends of these marks with smooth outer lines that follow the arc. The horn tapers from 3.0 cm at the base to 0.6 cm at the tip. Check: each cross-section mark is centered; widths decrease in order; no outer line segment is wider than its mark; the tip is not blunter than 0.6 cm. If any check fails, adjust the outer line at that interval.