Draw an All-Seeing Eye Emblem with Rayed Triangle

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 an emblem with triangle height 12 cm, base 14 cm, eye width 6 cm, eye height 3 cm, and 12 rays of length 2 cm. Describe the placement and checks.

Answer: Mark center C and a vertical axis. Place top vertex T 6 cm above C. Place base vertices L and R 7 cm left and right of the axis, 6 cm below C. Connect T-L, T-R, L-R. Place eye center O on the axis one-third of the triangle height below T, which is 4 cm below T. Mark eye corners 3 cm left and right of the axis. Draw upper and lower lid arcs peaking and dipping 1.5 cm from O. Draw an iris circle of diameter 1.5 cm centered at O; this equals the maximum half-eye-height limit. For 12 rays, mark the top vertex T as one ray start on the axis. Then mark 5 mirrored pairs of start points at evenly spaced heights along the two equal sides, excluding the base vertices, reflecting each left-side point across the axis. Place the final start where the axis meets the base, giving 1 + 10 + 1 = 12 starts. Draw each ray 2 cm outward from its edge, then mirror each left-side ray across the axis to define the matching right-side ray. Check: left and right eye corners are 3 cm from the axis; iris diameter 1.5 cm equals half the eye height 3 cm; each left-side ray start has a matching right-side start at the same perpendicular distance from the axis.