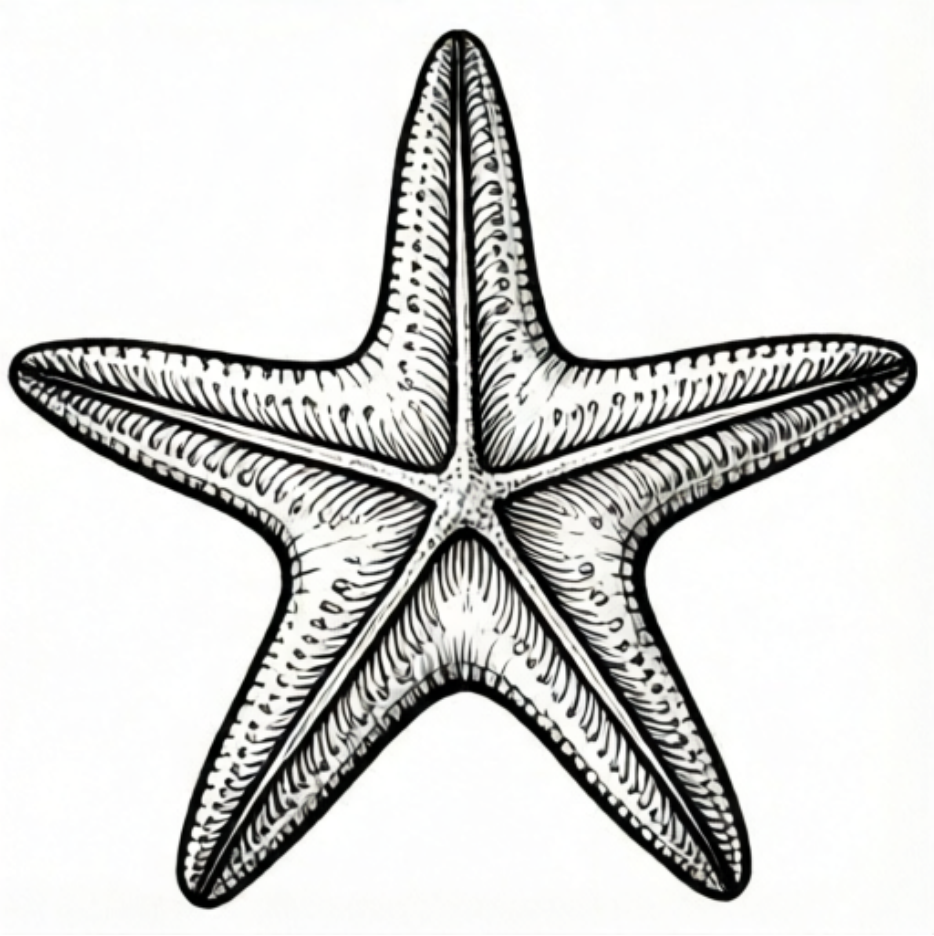
How to Draw a Starfish with Five-Fold Radial Symmetry

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.

How to Draw a Starfish with Five-Fold Radial Symmetry

Worked example / complete source key

Draw a starfish with five arms using a center point, five radial lines at 72-degree intervals, and an arm length of 6 cm. The central disk has a radius of 0.8 cm. Describe the steps and the check.

Answer: Mark the center. Draw five radial lines at 72 degrees. Mark tip points at 6 cm along each line. Mark base width points 0.8 cm from the center along each line and 0.8 cm to each side. Draw tapering wedges from base to tip. Draw a central disk of radius 0.8 cm. Check with an overlay that the five arms align and the tips are equidistant. The drawing is symmetric if rotating it by 72 degrees maps each arm onto the next.