Starfish Symmetry Drawing: Radial Axis and Arm Completion

Original tasks 1, 2 / independent work

Task 1

A starfish drawing uses a center O and five arms. The first arm is drawn along a vertical axis. At what angle from the vertical axis should the second arm be drawn if the arms are equally spaced?

Task 2

A reference arm is 8 cm long and 3 cm wide at its midpoint. A student draws a second arm 7 cm long and 3 cm wide at its midpoint. Describe one adjustment that would improve radial symmetry.

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Original tasks 3, 4 / independent work

Task 3

On a paper circle centered at O, a student marks five arm tips. The straight-line distance between neighboring tips is 4 cm for four pairs but 5 cm for one pair. What does this suggest about the angular spacing?

Task 4

A starfish drawing has a central disk of radius 1.5 cm centered at O. One arm outline starts 2 cm from O instead of at the disk edge. Is this a symmetry problem, and what is a simple fix?