Sunflower Pencil Drawing: Radial Petal Layers and Shading

Original tasks 1, 2 / independent work

Task 1

A head radius is 7 cm and the disk radius is 2.8 cm. The middle layer has 14 petals. Compute the disk-to-head ratio and the angular spacing.

Task 2

A back layer has 12 petals and a front layer has 8 petals. State the angular spacing of each layer and the offset if the front layer is shifted by half of the back layer's spacing.

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Original tasks 3, 4 / independent work

Task 3

A drawing uses a head radius of 6 cm and a petal length of 3 cm beyond the head circle. What is the total distance from the center to a petal tip, and what is the ratio of petal length to head radius?

Task 4

A seed disk has radius 2.4 cm and three concentric rings placed at equal radial intervals inside it. What is the radial interval between rings if the first ring is at the disk boundary and the third is at the center?