Draw Angel Wings: Layered Feather Rows and Curved Silhouette

Original tasks 1, 2 / independent work

Task 1

Plan a right-facing wing with shoulder at (0, 0) and tip at (10, 0) cm. The outer arc bulges 3 cm above the midpoint. You will use three rows with feather lengths 1.5 cm, 2.5 cm, and 3.5 cm. State the drawing order and the total planned feather length.

Task 2

A wing silhouette has an outer arc that bulges 5 cm from a 14 cm shoulder-to-tip line. You draw six feathers in the back row, each 2 cm long, and eight feathers in the middle row, each 3 cm long. What is the combined feather length of these two rows, and which row should be drawn first?

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Original tasks 3, 4 / independent work

Task 3

You are drawing a left-facing wing. The shoulder is at (0, 0) and the tip at (−9, 0) cm. The outer arc bulges 3 cm above the midpoint. Describe where the feathers point and which row is drawn first.

Task 4

A front row has 7 feathers of 4 cm each. A middle row has 9 feathers of 3 cm each. A back row has 11 feathers of 2 cm each. Compute each row's total length and the grand total. State one check that the layering is correct.