Spiral Shell Drawing: Coiling Curve and Ridge Construction

Original tasks 1, 2 / independent work

Task 1

Starting radius 0.4 units, increment 0.3 units per quarter turn. Calculate the radius after five quarter turns.

Task 2

A coil has a starting radius of 0.5 units and reaches 2.1 units after eight quarter turns. What increment was used?

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Original tasks 3, 4 / independent work

Task 3

You plan one ridge per quarter turn for twelve quarter turns. If the first ridge is at the first quarter turn, how many ridges are placed in total?

Task 4

A drawn coil measures 1.4 units at the fourth quarter turn. The starting radius was 0.6 units and the increment was 0.2 units. Is the drawing consistent with the plan?