Wire Contour Drawing: Translate a Line Drawing into a Bendable Wire Plan

Original tasks 1, 2 / independent work

Task 1

A contour drawing of a mug body is a closed loop with 4 bend points. The handle is a separate open wire joined at two points on the body. Using hypothetical 2.0 mm wire for the body and 1.5 mm for the handle, state the number of bend points, the number of joins, and whether each path is open or closed.

Task 2

A leaf outline is a closed loop with 5 bend points. A straight stem of hypothetical length 35 mm joins at one point. Add 10 mm handling allowance at the stem's free end. State the stem cut length and the total number of joins.

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Original tasks 3, 4 / independent work

Task 3

A contour path has bend points at distances of 20 mm, 45 mm, and 70 mm from the start. The path is open and ends at 90 mm. Add 10 mm handling allowance at each free end. State the total cut length and list the bend distances in order.

Task 4

A plan uses hypothetical 1.5 mm wire for a small contour with 3 bend points and one join. The contour length is 60 mm and the join adds a separate 20 mm wire with one free end. Add 10 mm handling allowance at the free end. State the total wire length and identify one mistake to avoid in this plan.