Cross-Contour Tree Drawing: Wrap Lines Around Trunk and Branches

Original tasks 1, 2 / independent work

Task 1

A trunk is 8 cm long with a diameter of 3 cm. A branch is 4 cm long with a diameter of 1.5 cm. Use a trunk spacing of 1 cm. Compute branch spacing, trunk intervals, trunk lines, branch intervals, and branch lines.

Task 2

A trunk is 12 cm long with a diameter of 4 cm. Use a trunk spacing of 1.5 cm. Compute trunk intervals and trunk lines. Then state one valid alternative spacing rule and its line count.

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Original tasks 3, 4 / independent work

Task 3

A branch is 6 cm long with a diameter of 2 cm. The trunk spacing is 1 cm and the trunk diameter is 4 cm. Compute branch spacing, branch intervals, and branch lines. Describe how the lines should wrap around the branch.

Task 4

A trunk is 9 cm long with a diameter of 3 cm. A branch is 3 cm long with a diameter of 1 cm. Use a trunk spacing of 1 cm. Compute all spacings, intervals, and lines. Then list two mistakes to avoid and how to fix them.