Compare Tree Silhouettes and Branch Structures Across Species

Original tasks 1, 2 / independent work

Task 1

A silhouette has crown width 4 cm, crown height 16 cm, and branch angles of 10, 20, and 30 degrees from vertical. Branch tips rise above attachment points. Classify the silhouette and justify with two evidence items.

Task 2

A silhouette has crown width 12 cm, crown height 10 cm, and branch angles of 50, 60, and 70 degrees from vertical. Most branch tips fall below attachment points. Classify the silhouette and justify with two evidence items.

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Original tasks 3, 4 / independent work

Task 3

A silhouette has crown width 6 cm, crown height 12 cm, and branch angles of 30, 40, and 50 degrees from vertical. The crown tapers to a point and tips rise above attachment points. Classify the silhouette and justify with two evidence items.

Task 4

Two silhouettes are compared. Silhouette A has mean angle 45 degrees and ratio 0.6. Silhouette B has mean angle 50 degrees and ratio 0.65. Both have upward tips. Are they different types under the 5-degree and 0.05 allowance? Justify.