Draw a Jungle Tree: Layered Canopy and Hanging Vines

Original tasks 1, 2 / independent work

Task 1

A drawing has a back canopy layer at 14 cm height, a middle layer at 11 cm, and a front layer at 8 cm on a hypothetical sheet. Each layer overlaps the one behind it by 2 cm. What is the visible height of the back layer above the middle layer?

Task 2

Two vines start at support points 6 cm apart. Vine A hangs 9 cm and Vine B hangs 5 cm. If both tips are measured from the same baseline, how much lower is Vine A's tip than Vine B's tip?

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Original tasks 3, 4 / independent work

Task 3

A front leaf cluster is drawn with a baseline at 7 cm and a midline at 9 cm. A back cluster has a baseline at 13 cm and a midline at 16 cm. Using the x-height convention, what is each cluster's x-height, and which is larger?

Task 4

A tree drawing uses three canopy layers and four vines. The back layer has 6 leaf clusters, the middle has 5, and the front has 4. If each vine carries 2 small leaf clusters, how many leaf clusters are in the drawing in total?