Draw a Bodhi Tree: Heart-Shaped Leaves and Drooping Branches

Original tasks 1, 2, 3, 4 / complete keys

Task 1

Draw one heart-shaped leaf at 45 degrees with length 4 cm. Label notch, point, midrib, and two side veins.

Answer: Leaf outline rotated so point faces upper right; notch at lower left stem end; midrib from notch to point; two side veins branching outward; length measured 4 cm.

Reason: Rotation preserves the notch-to-point relationship; labeling confirms convention.

Check: Measure notch-to-point distance; confirm notch is at stem end and point opposite; count side veins.

Task 2

Draw a trunk 3 cm wide at base and 1.5 cm wide at first branch on a 15 cm by 21 cm sheet. State the taper difference.

Answer: Curved-sided trunk from 3 cm to 1.5 cm; difference is 1.5 cm.

Reason: Subtracting upper width from base width gives taper difference.

Check: Measure both widths with a ruler; subtract; compare to stated 1.5 cm.

Task 3

Draw two drooping branches: one starts at 16 cm height and ends at 10 cm; another starts at 12 cm and ends at 8 cm. State each drop.

Answer: First drop 6 cm; second drop 4 cm; both end lower than start.

Reason: Drop equals start height minus end height.

Check: Measure start and end heights; subtract; confirm positive values.

Task 4

Sketch a small bodhi tree with three leaves of length 3 cm, 4 cm, and 5 cm. Record the range and check every leaf has a notch and point.

Answer: Range 3 cm to 5 cm; each leaf has notch at stem and point opposite; midrib present.

Reason: Recording range makes size variation checkable without requiring identical leaves.

Check: Measure each leaf; confirm range; trace each outline for notch and point.

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Source rubric / reflection

- [ ] Trunk taper: 0 no taper, 1 slight taper, 2 clear taper with recorded widths.
- [ ] Branch droop: 0 upward tips, 1 one drooping branch, 2 at least two branches end lower than start.
- [ ] Leaf shape: 0 no notch, 1 notch unclear, 2 clear notch at stem and point opposite on every leaf.
- [ ] Vein pattern: 0 absent, 1 midrib only, 2 midrib plus three to five side veins per side.
- [ ] Measurement record: 0 none, 1 partial, 2 paper size, trunk widths, and leaf length range recorded.

Reflection: What did you check, what did you change, and what will you try next?