Dragonfly Wing Venation: Symmetry Drawing Practice

Original task 1 / independent drawing and calculation

Task 1

On a blank wing outline, draw five longitudinal veins from the base to the tip. Mark a nodus on the leading edge two-thirds of the way from base to tip. Describe where your first cross-vein should go and why.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

A symmetry template has a vein junction 4 cm left of the check line and 6 cm above the wing base. A second junction is 2 cm left of the check line and 3 cm above the base. State the mirrored positions and explain how you would verify them.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

You have drawn a wing with ten cells. Three cells near the trailing edge are isolated: their veins do not connect to the main network. Describe two ways to fix this and state which is preferable.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 4 / independent drawing and calculation

Task 4

Draw a freehand wing with at least eight cells. Use medium lines for longitudinal veins and light lines for cross-veins. Then check symmetry by describing how you would compare your drawing to a mirrored version.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.