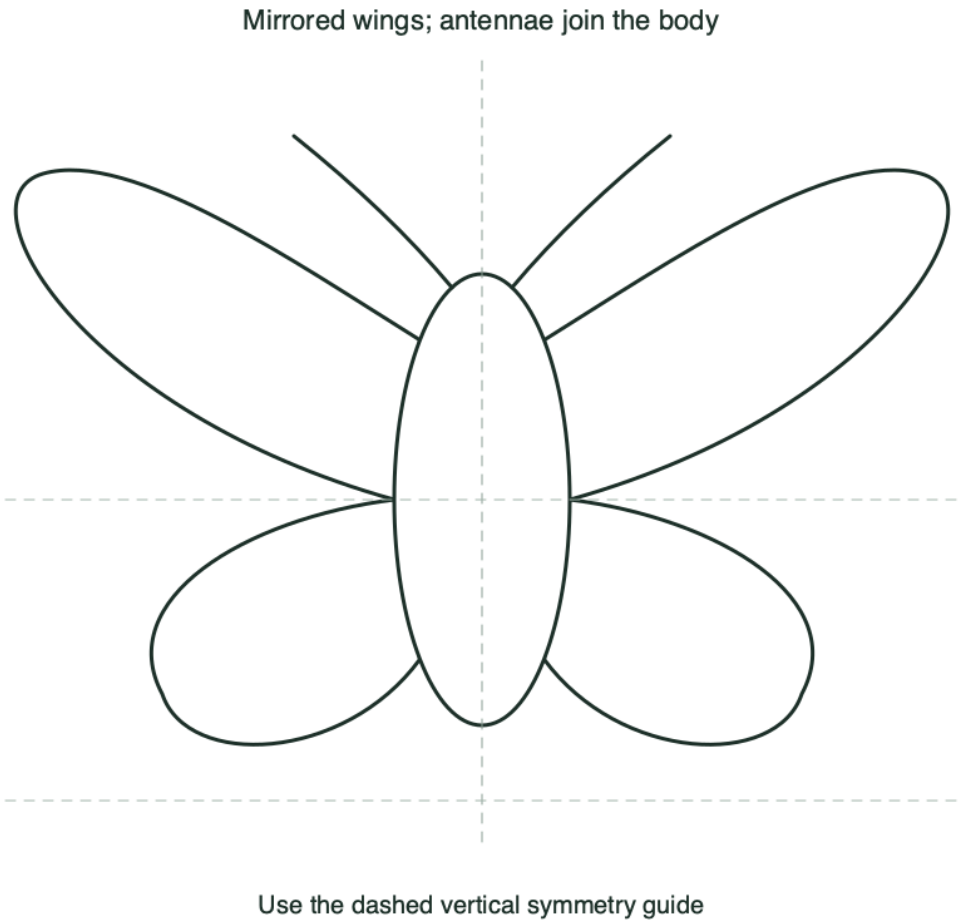
Moth Outline Drawing: Wing Symmetry and Antenna Placement

MOTH CONTOUR REFERENCE



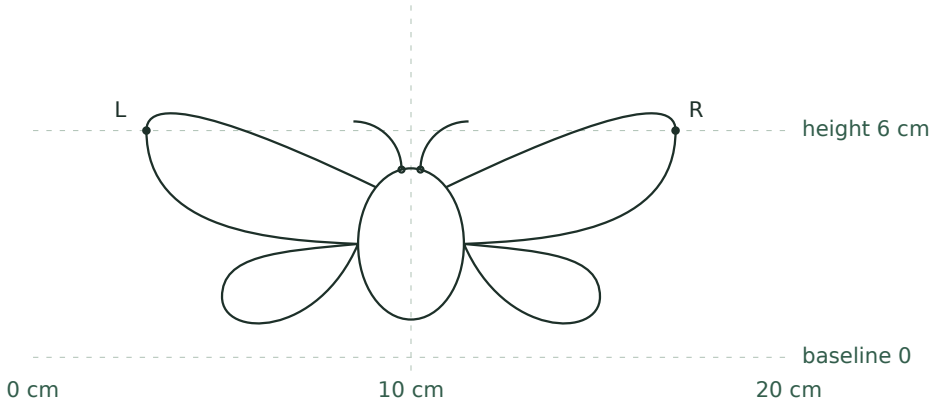
Generic reviewed moth contour: four wings, a simple oval body and two body-top antennae. This image is illustrative, not a physical ruler. Use the measured guide pages for the tasks.

The symmetry midline is vertical. The baseline and the separate height guide are horizontal. Measure paired wing points at equal heights. Contours and legible label styles may vary; the proportions used here are drawing choices, not anatomical standards.

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MEASURED WORKED EXAMPLE

On a 20 cm wide paper, a student sets a midline at 10 cm. The left forewing tip is 7 cm left of midline and 6 cm above baseline. Where should the right forewing tip be, and what check confirms symmetry?



The right tip should be 7 cm right of midline and 6 cm above baseline. Check by measuring both horizontal distances from the midline and both heights from the baseline; they should match within your drawing tolerance.

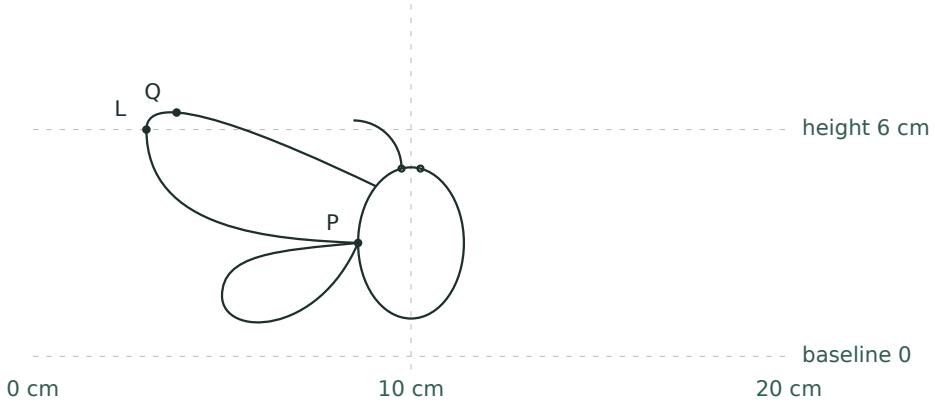
Coordinates in this example: left tip x = 10 - 7 = 3 cm; right tip x = 10 + 7 = 17 cm; both heights are 6 cm. Other contour dimensions are chosen for this illustration.

Measured guide scale 1:2 at 100% Actual Size: 1 stated cm is 5 mm on paper. Double measured paper lengths to recover task values. Keep counts and angles unchanged.

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HALF-WING COMPLETION GUIDE

Mirror the left forewing, hindwing and antenna onto the blank right half. Use three distinct forewing checkpoints: P at the lower wing-body junction, Q on the outer contour, and L at the tip.



Complete the blank right half by mirroring three distinct checkpoints.

Example checkpoint offsets and heights, in source cm: P = 1.4 left, 3 up; Q = 6.201 left, 6.451 up; L = 7 left, 6 up. Copy each horizontal distance to the right at its same height. These sample checkpoints are not additional task givens.

The example body height is 4 cm; the antenna guide is about 2 cm along each curve. Measure a curve using thread or a narrow strip, not the straight chord. The horizontal height guide here marks 6 cm, separately from the vertical symmetry midline.

Measured guide scale 1:2 at 100% Actual Size: 1 stated cm is 5 mm on paper. Double measured paper lengths to recover task values. Keep counts and angles unchanged.