Drawing Symmetry Flowers: Axis Lines and Petal Mirroring

Original task 1 / independent drawing and calculation

Task 1

Draw a 6-petal symmetrical flower with a vertical axis. Use a tip distance of 3 cm. Describe how you space the petals and check symmetry.

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 student draws a flower with 5 petals and claims it is symmetrical across one vertical axis. Explain why this is a problem and how to fix it.

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 want to draw an 8-petal flower with tip distance 5 cm. What is the angle between adjacent petals? Describe how you would draw and check the flower.

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

Describe how to use a symmetry box to practice mirroring petals for a 4-petal flower. Include the angle between petals and a check method.

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.