Draw a Claw in Perspective with Curved Taper

Original task 1 / independent drawing and calculation

Task 1

Draw a claw with base major axis 5 cm and minor-to-major ratio 1:2. Use a straight axis and two cross-sections with major axes 3 cm and 1.5 cm. State the tip position and check the taper.

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

Draw a claw with base major axis 7 cm and ratio 2:3. Curve the axis to the left. Place three cross-sections with major axes 5 cm, 3 cm, and 1 cm. Describe how you keep the centers on the axis.

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

Draw a claw with base major axis 4 cm and ratio 1:1. Use a curved axis bending downward and four cross-sections with major axes 3 cm, 2 cm, 1 cm, and 0.5 cm. Explain why the base looks circular.

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 claw with base major axis 6 cm and ratio 1:3. Curve the axis upward. Place cross-sections at major axes 4 cm, 2 cm, and 1 cm. State one valid alternative and why it is acceptable.

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.