# Cross-Contour City Drawing: Wrapping Surface Lines Around Urban Forms

Original task 1 / independent drawing and calculation

## Task 1

A cylindrical tank is 4 cm wide and 8 cm tall. Draw four ring-like cross-contours centered on the vertical axis x=2 cm, with ellipse centers at y=1.0, 1.5, 2.5, and 3.0 cm above the bottom. State the successive vertical gaps and how to check the loops.

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 pitched roof guide is 5 cm wide and 3 cm tall. Draw three cross-contour lines at heights 0.4, 1.4, and 2.0 cm that each follow the slope, bend over the ridge at 2.6 cm, and continue down the other slope. Keep the chosen spacing explicit.

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.

# Cross-Contour City Drawing: Wrapping Surface Lines Around Urban Forms

Original task 3 / independent drawing and calculation

## Task 3

A 6 by 6 cm dome guide has a crown at y=4.6 cm. Draw three contour arcs at y=1.0, 2.2, and 3.4 cm, centered on x=3 cm. State their spacing and how each arc ends.

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.

# Cross-Contour City Drawing: Wrapping Surface Lines Around Urban Forms

Original task 4 / independent drawing and calculation

## Task 4

Draw two separate forms, a 6 cm tower and a 4 cm wide cylindrical tank. Add two contours to each, then show how an overlap is indicated without joining unrelated surface lines.

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.