Small Trippy Line Motifs: Spiral, Wave, Dot Ring, Contour

Original task 1 / independent drawing and calculation

Task 1

Draw a spiral in a 50 mm square. Use a hypothetical starting radius of 3 mm and increase by 2 mm every quarter turn, for five quarter turns. State the final radius and whether the spiral fits.

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 warped wave across a 60 mm square using three horizontal guides at 15 mm, 30 mm, and 45 mm from the bottom. Make six peaks with a hypothetical peak height of 8 mm above the middle guide, spaced 10 mm apart peak-to-peak, with the first peak 5 mm from the left edge and the last peak 5 mm from the right edge. Check that the peaks stay inside the square.

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 dot ring with 12 dots on a hypothetical 20 mm radius circle inside a 50 mm square. Connect every second dot. State how many connecting lines you draw and whether the ring fits.

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 four nested contours inside a 60 mm square, starting with a hypothetical 50 mm outer loop and using an even hypothetical gap of 5 mm between loops. State the approximate width of the innermost loop and whether all loops fit.

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.