Draw Seashells with Spiral and Rib Construction

Original task 1 / independent drawing and calculation

Task 1

Draw a spiral shell with three coil loops and five ribs. Use a cone outline 10 cm long and 5 cm wide at the base. Mark rib intervals of 6 mm at the widest growth line and 3 mm near the tip.

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 rib-dominated shell with no visible spiral coil. Use a rounded outline 8 cm wide and 6 cm tall. Mark a center growth line running horizontally across the middle of the shell and two curved edge growth lines that follow the shell outline, one near the top edge and one near the bottom edge. Place eight rib marks along the center line at 8 mm spacing: seven intervals totaling 56 mm, centered within the 80 mm width, so the first mark is 12 mm from the left edge and the last is 12 mm from the right edge. On each curved edge guide, transfer the same eight normalized positions from left to right (15%, 25%, 35%, 45%, 55%, 65%, 75%, and 85% of that guide’s total arc length). Keep their order; the 12 mm margin applies only to the straight centerline, and the curved marks are not evenly spaced by 8 mm. Draw each rib as a curved arc bowing outward, with heavier line weight at the crest.

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.

Draw Seashells with Spiral and Rib Construction

Original task 3 / independent drawing and calculation

Task 3

Draw a spiral shell with four loops and seven ribs. Use a cone outline 14 cm long and 7 cm wide. Mark rib intervals of 9 mm at the widest line and 4.5 mm near the tip. Add a shadow from the upper left.

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.

Draw Seashells with Spiral and Rib Construction

Original task 4 / independent drawing and calculation

Task 4

Draw a shell combining spiral and ribs: three loops, six ribs, cone outline 12 cm long and 6 cm wide. Use rib intervals of 7 mm at the wide line and 3.5 mm near the tip. Vary one rib spacing slightly and explain why.

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.