Rune Drawing: Angular Glyphs, Stroke Order, and Carved Shading

Original tasks 1, 2 / complete keys

Task 1

Draw a glyph with a vertical stem from baseline to midline and a diagonal from the stem top to the left guide at baseline. Use a hypothetical 20 mm x-height and 2 mm main stroke. State the stroke order and one check.

Answer: Draw the vertical stem top to bottom, then the diagonal from the stem top to the baseline-left guide intersection. Check that the diagonal ends exactly at the baseline and left guide.

Reason: The stem is the selected primary reference in this stroke order, so it is drawn first; the diagonal depends on its top endpoint. A nonvertical diagonal with the same 20 mm vertical span is actually longer than the stem, so length alone is not the reason for this order.

Check: Measure baseline contact at the left guide and confirm the diagonal starts at the stem top.

Task 2

Draw a glyph with a horizontal at the midline from left guide to right guide and a vertical from the horizontal midpoint to the baseline. Use a hypothetical 20 mm x-height. State the stroke order and one check.

Answer: Draw the horizontal left to right at the midline, then the vertical top to bottom from the horizontal midpoint to the baseline. Check that the vertical meets the horizontal at its midpoint and touches the baseline.

Reason: The horizontal establishes the midpoint endpoint needed by the vertical.

Check: Confirm the vertical starts at the horizontal midpoint and ends on the baseline.

Rune Drawing: Angular Glyphs, Stroke Order, and Carved Shading

Original tasks 3, 4 / complete keys

Task 3

Draw a glyph with a diagonal from the left guide at midline to the right guide at baseline and a short horizontal from the diagonal midpoint to the right guide at midline. Use a hypothetical 20 mm x-height. State the stroke order and one check.

Answer: The frozen requirements are inconsistent. With the midline 20 mm above baseline, the diagonal midpoint is 10 mm above baseline. A horizontal from that midpoint remains at 10 mm and cannot end at the right guide on the 20 mm midline. Draw the diagonal first and mark its midpoint, then record the contradiction. One explicitly labelled repair keeps the connector horizontal at 10 mm and ends it at the right guide there; another keeps the endpoint on the midline but uses an upward sloping connector. Neither repair satisfies all original clauses simultaneously.

Reason: The midpoint height of a segment from y = 20 to y = 0 is (20 + 0) / 2 = 10 mm. A horizontal segment has constant y, while the specified endpoint is at y = 20 mm.

Check: Check the midpoint is at y = 10 mm, the original target endpoint is at y = 20 mm and the vertical difference is 10 mm. Label any relaxed clause explicitly; do not claim a horizontal segment joins those unequal heights.

Task 4

Take the glyph from exercise 1 and add carved shading with light from upper left using a hypothetical 1 mm shading stroke. Describe where shadow and highlight marks go and one check.

Answer: Under the declared concave-groove convention, place the hypothetical 1 mm dark shading on upper and left inner edges, and leave a thin light highlight on the opposite lower and right inner edges. Keep marks inside the 2 mm main glyph footprint and retain the recorded upper-left light direction. These directions deliberately differ from a convex raised-stroke model.

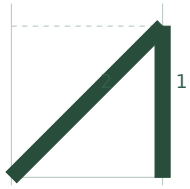
Reason: The lesson models concave carved grooves rather than raised solid strokes. Applying the same declared dark-edge and light-edge mapping to the stem and diagonal makes the plate consistent; reversing the mapping in this exercise would contradict the earlier example.

Check: Compare the exercise with the declared groove policy: upper/left inner edges dark, lower/right inner edges light; one light direction; 1 mm shading marks inside the glyph, with clean angular junctions.

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Task 1 / answers

Invented rune-style geometry / no historical glyph meaning / labelled mm print 1:1

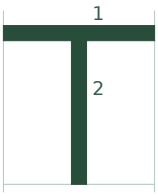


Stem first as the selected structural reference, then dependent diagonal to the left baseline-guide intersection. Main width 2 mm; frame height 20 mm. This order is not a claim that the vertical stem is longer than the diagonal.

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Task 2 / answers

Invented rune-style geometry / no historical glyph meaning / labelled mm print 1:1

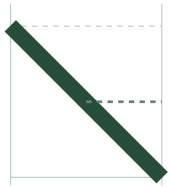


Horizontal first, then vertical from its midpoint to baseline. The central junction is x = 10 mm in the chosen 20 mm guide width. Main footprint width 2 mm is a chosen class example.

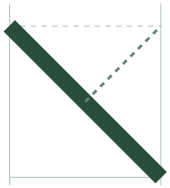
Rune Drawing: Angular Glyphs, Stroke Order, and Carved Shading

Task 3 / answers

Invented rune-style geometry / no historical glyph meaning / labelled mm print 1:1



A / relax endpoint height



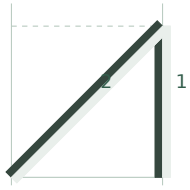
B / relax horizontal

Original requirement is IMPOSSIBLE: a horizontal from height 10 mm cannot end at height 20 mm. A ends horizontally at right guide height 10; B reaches the original right-midline target with a rising connector. Neither satisfies all original clauses.

Rune Drawing: Angular Glyphs, Stroke Order, and Carved Shading

Task 4 / answers

Invented rune-style geometry / no historical glyph meaning / labelled mm print 1:1



Stem first as the selected structural reference, then dependent diagonal to the left baseline-guide intersection. Dark upper/left and light lower/right inner bands are 1 mm wide, contained in the 2 mm glyph footprint; this is a selected concave graphic convention.

Rune Drawing: Angular Glyphs, Stroke Order, and Carved Shading

Source rubric / reflection

- [ ] Baseline and midline are clearly established and used consistently.
- [ ] Stroke order follows the stated convention: verticals top to bottom, diagonals upper to lower, horizontals left to right.
- [ ] Main-stroke width is consistent across the plate.
- [ ] Junctions are tight and strokes meet at intended endpoints.
- [ ] One light direction is used and carved shading stays inside the glyph.
- [ ] Chosen values are recorded, and valid alternative styles are accepted if construction and shading are consistent.

Reflection: What did you check, what did you change, and what will you try next?