Contour Drawing of a Rook: Edge-Only Chess Piece Study

Original task 1 / independent drawing and calculation

Task 1

Draw a front-view rook in a 50 by 70 mm frame with the origin at the bottom left. Use a 50 mm base, a centered 30 mm shaft, and a centered 25 mm turret; flare the base to the shaft by y=15 mm and place the shaft-to-turret step at y=52.5 mm. Put the midline at y=35 mm. Add four crenellation tops and do not shade.

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

Make a paper reference card for the text-defined front rook: base edge from x=0 to 60 mm at y=0; flares to shaft sides x=12 and x=48 mm at y=20; shaft reaches y=60; shoulders step to turret sides x=15 and x=45 mm, which rise to y=80. The turret has four 6 mm top flats and three 2 mm notch bottoms, each notch 6 mm deep. In a separate box, blind-contour the card without looking at the box, then count each straight outline run. How many runs are in the reference?

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

Use a front-view rook 80 mm tall: base width 60 mm, narrowing to shaft sides x=12 and x=48 mm at y=20 mm; shaft sides continue to y=60 mm, then step inward to turret sides x=15 and x=45 mm, which reach y=80 mm. The turret top has four 6 mm flats separated by three 2 mm notches 6 mm deep. Draw its continuous outline in a strip 160 mm tall, starting at the base left corner. Add internal edges on the return path, close the line, and keep it inside the strip.

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

Use the front-view contour only to compare with the text-described target ratio. The target has a 60 mm base and 30 mm turret; your drawing has a 60 mm base and 40 mm turret. Apply this pass rule: flag a width difference only if it is greater than one quarter of the 60 mm base (15 mm). Exact matching to the target ratio is optional. What is the ratio difference, and which front-view edge, if any, should you adjust? No angled view is needed.

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.