Su-27 Orthographic Drawing: Plan and Side Outlines

Original task 1 / independent drawing and calculation

Task 1

In a plan view, the nose is at station 0 and the tail at station 24 grid squares. The horizontal tail leading edge is at station 18 and trailing edge at station 22. The half-span of the tail is 4 squares. Describe the mirrored tail outline and give one arithmetic check.

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

In a side view, the fuselage centerline is at height 0. The canopy top is 3 grid squares above the centerline and the fin top is 7 squares above it. The fin leading edge is at station 16 and trailing edge at station 20. Describe the fin trapezoid and state the fin height label.

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

A student labels a wing sweep as 2 grid squares chordwise for every 5 squares spanwise. The half-span is 10 squares. How many grid squares does the leading edge advance chordwise from root to tip, and what check confirms it?

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

The plan view nose is at station 0 and tail at station 20. The side view uses the same stations. A student places the side-view nose at station 2 and tail at station 22. State the alignment error and the correction.

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.

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Plan-view grid for mirrored tail outline

Actual source-bound component. Original question values and separate answer keys remain unchanged.



25 columns × 9 rows; 6 mm square cells; actual size at 100% printing.