Wedge Drawing: Compare Taper Angles and Shade Angled Planes

Original task 1 / independent drawing and calculation

Task 1

Draw a wedge with base length 40 mm, base width 20 mm, and ridge height 10 mm. Label all faces and measure the taper angle.

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 two wedges with the same 50 mm base length and 25 mm base width but ridge heights of 15 mm and 25 mm. Compare their silhouettes and state which has the larger taper angle.

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.

Wedge Drawing: Compare Taper Angles and Shade Angled Planes

Original task 3 / independent drawing and calculation

Task 3

Shade a wedge using a light source from the upper right. State the light direction and assign light, medium, and dark to the visible planes.

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.

Wedge Drawing: Compare Taper Angles and Shade Angled Planes

Original task 4 / independent drawing and calculation

Task 4

On a grid where one square equals 5 mm, plan a wedge with base length 30 mm, base width 15 mm, and ridge height 10 mm. State the square counts and the taper angle.

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.