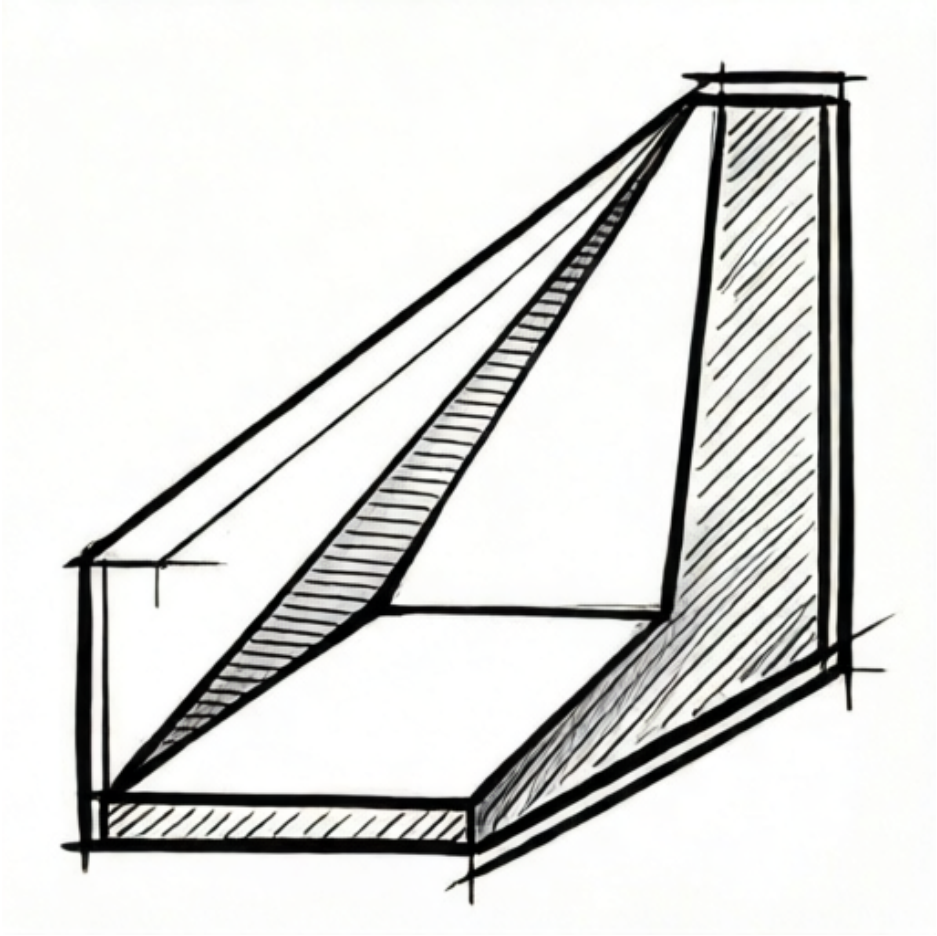
Wedge Drawing: Compare Taper Angles and Shade Angled Planes

Ordinary topic reference / separately checked pixels



Wedge Drawing: Compare Taper Angles and Shade Angled Planes

Original worked example / unchanged complete key

Prompt: A wedge has a base length of 60 mm, base width of 30 mm, and ridge height of 20 mm. Draw it, label the faces, measure the taper angle, and shade it using the upper-left light convention.

Answer: The base is a 60 mm by 30 mm rectangle. The ridge is 20 mm above the base, parallel to the long edge. The two triangular side faces connect the ridge ends to the base corners. The taper angle is measured between a sloping face and the base, using the base width (30 mm) as the horizontal run; with these hypothetical values it is arctan(20/30) = arctan(0.667) ≈ 33.7 degrees. Shading: left sloping face light, right sloping face medium, triangular side faces dark. The silhouette is medium height compared with the 10 mm and 30 mm variants (about 18.4 and 45.0 degrees).