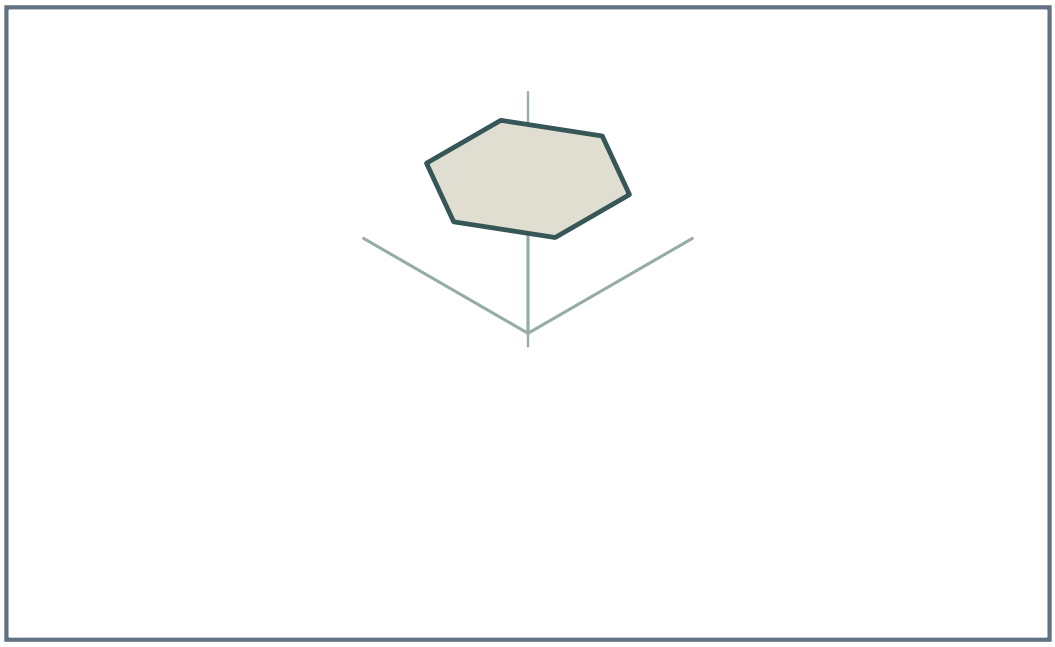
Draw Isometric Screw

Student | Task 1 of 4 | LETTER

Original prompt

Task 1 — Head only. Using the isometric axes, construct a hexagonal screw head centred on a vertical axis. Draw the top hexagon, the vertical side lines, and the lower hexagon. Do not draw the shank or thread.

Practice construction



Your drawing and projection check

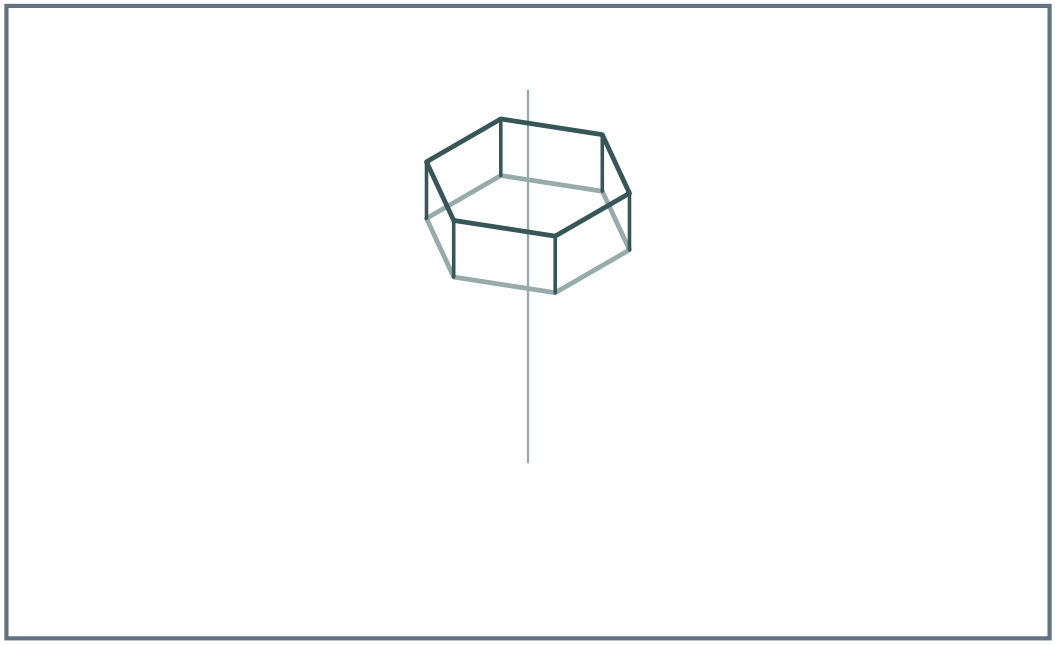
Draw Isometric Screw

Student | Task 2 of 4 | LETTER

Original prompt

Task 2 — Shank only. Below the given head underside in the reference figure, construct a cylindrical shank along the vertical axis, ending in a chamfered tip. Draw the two vertical side lines, the upper ellipse at the head underside, the lower ellipse at the tip, and the chamfer ring.

Practice construction



Your drawing and projection check

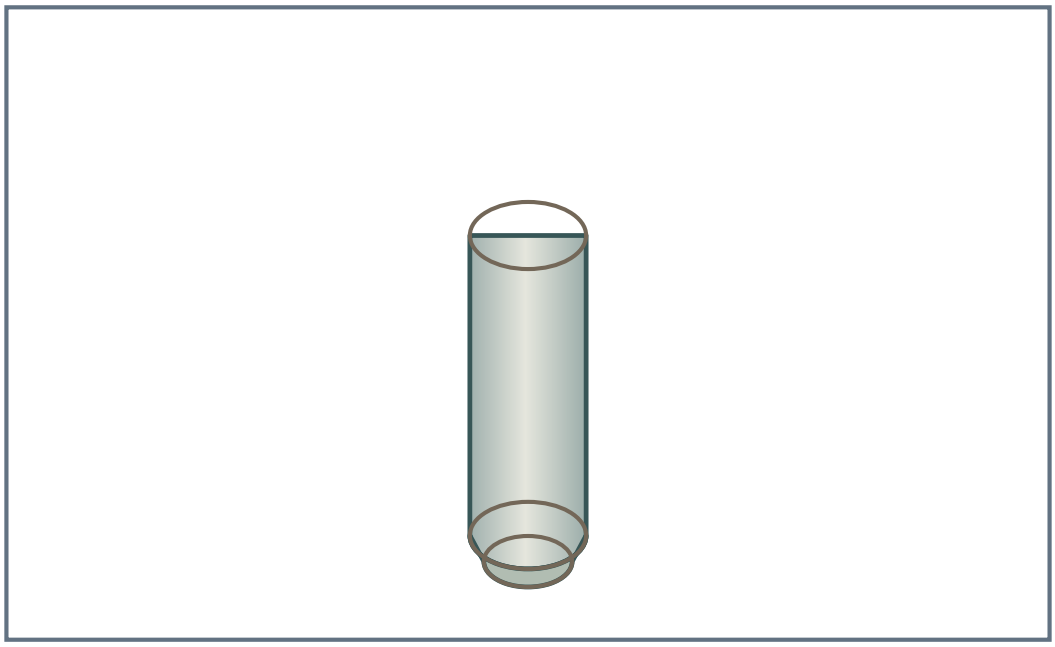
Draw Isometric Screw

Student | Task 3 of 4 | LETTER

Original prompt

Task 3 — Thread only. On the given shank in the reference figure, add a front-facing helical thread as a zig-zag series of evenly spaced slanted lines that alternate direction and stay within the shank's side lines.

Practice construction



Your drawing and projection check

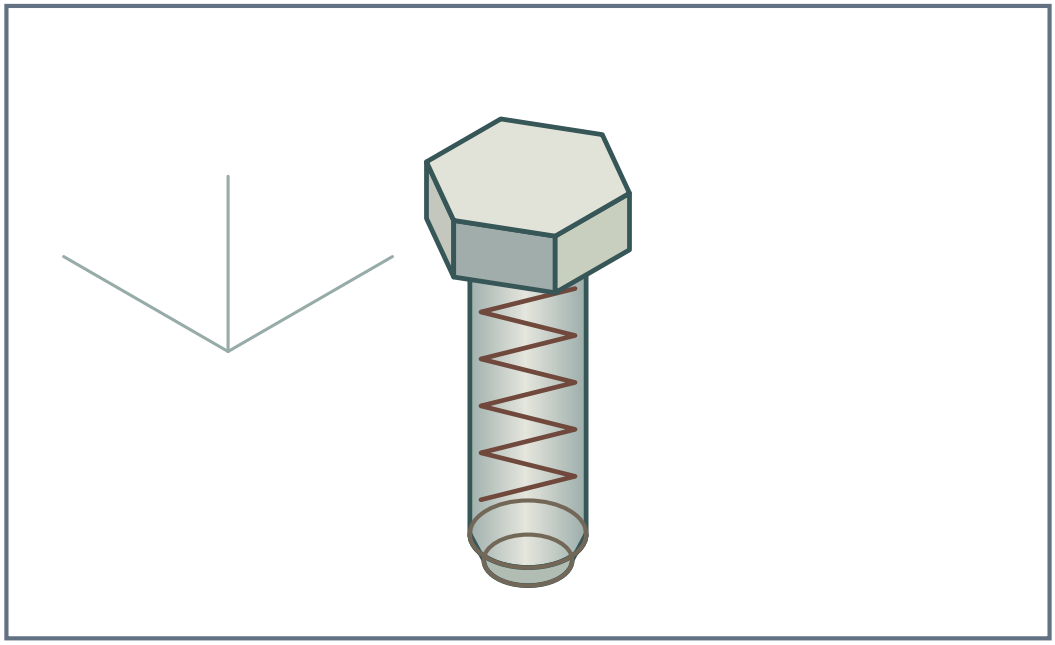
Draw Isometric Screw

Student | Task 4 of 4 | LETTER

Original prompt

Task 4 — Full screw from a reference. Using the supplied reference image of an isometric screw, redraw the complete screw: hexagonal head, cylindrical shank, chamfered tip, and front-facing helical thread. Match the reference's proportions and thread spacing as closely as you can.

Practice construction



Your drawing and projection check