

Exercise 4: Isometric Sketches of Rotations

November 2017

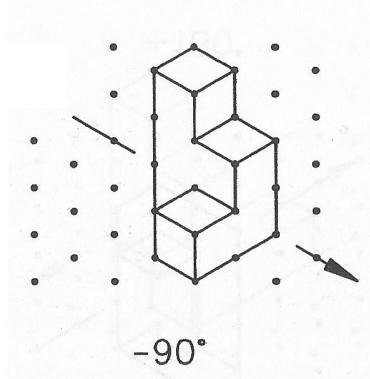
1 Introduction

This exercise involves more isometric drawing, though this time you will be basing your drawings off a rotation of an original isometric image, so it shouldn't be as tricky as figuring them out from orthographic projections. The exercises are both very similar, though the first requires you to base your rotations off degrees and the second requires you to base them off arrow codes.

It's very important that you remember how to draw the difference between negative and positive rotations. It may help to have the instructions document (Instructions 4) open while you attempt these if you need reminding. Remember the left/right hand rule!

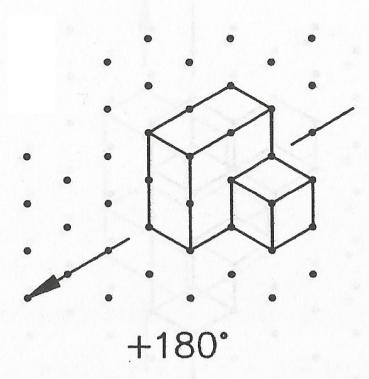
2 Drawing Rotations: Degrees

For each of the figures below, draw a representation of the rotation about the given axis specified in degrees.



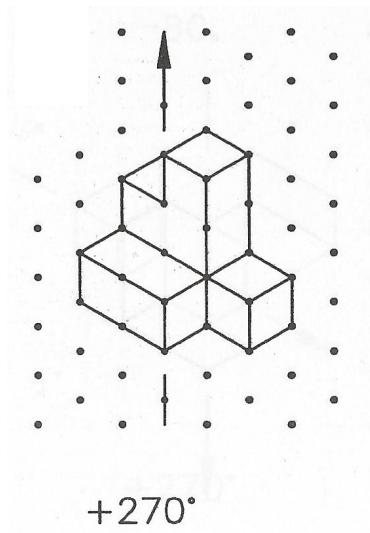
-90°

Figure 1: draw an isometric representation of the rotation specified



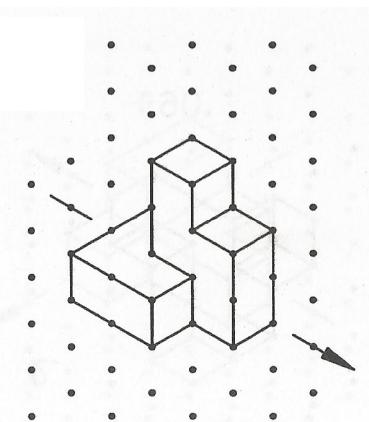
+180°

Figure 2: draw an isometric representation of the rotation specified



+270°

Figure 3: draw an isometric representation of the rotation specified



+90°

Figure 4: draw an isometric representation of the rotation specified

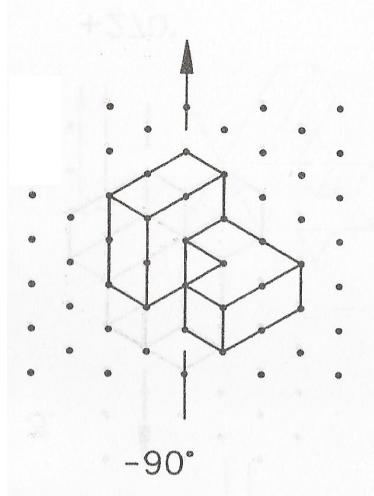


Figure 5: draw an isometric representation of the rotation specified

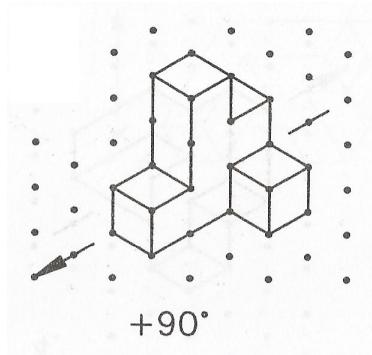


Figure 6: draw an isometric representation of the rotation specified

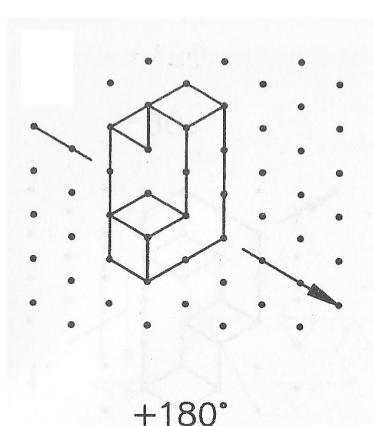


Figure 7: draw an isometric representation of the rotation specified

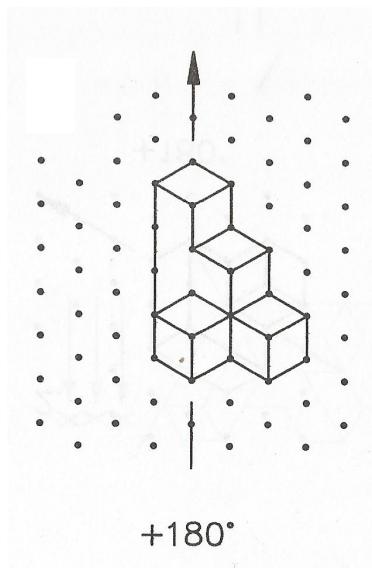


Figure 8: draw an isometric representation of the rotation specified

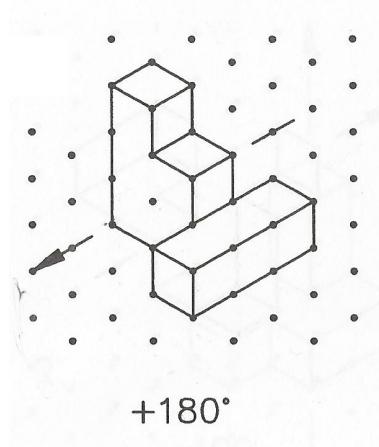


Figure 9: draw an isometric representation of the rotation specified

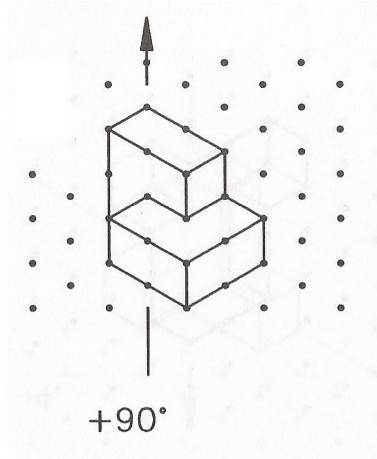


Figure 10: draw an isometric representation of the rotation specified

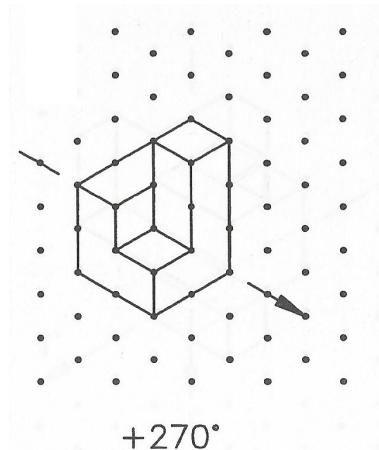


Figure 11: draw an isometric representation of the rotation specified

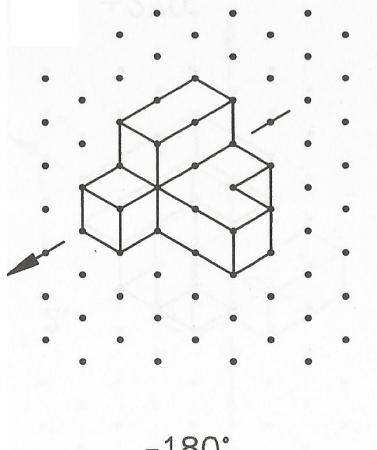


Figure 12: draw an isometric representation of the rotation specified

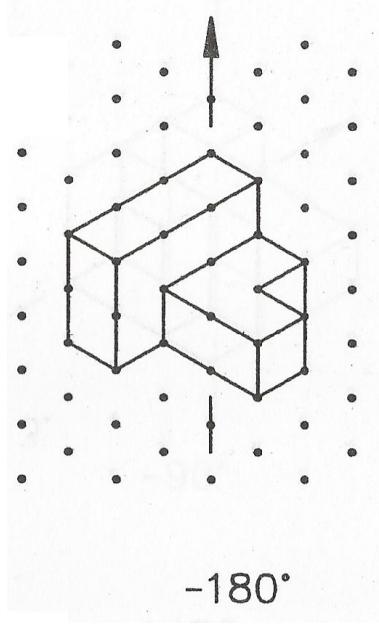


Figure 13: draw an isometric representation of the rotation specified

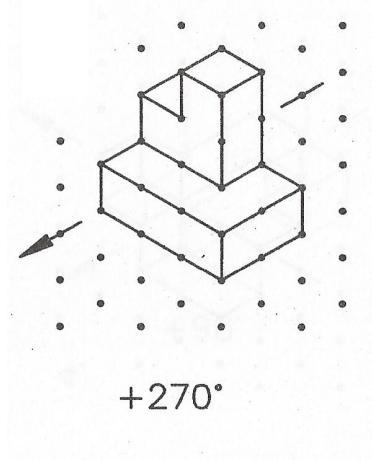


Figure 14: draw an isometric representation of the rotation specified

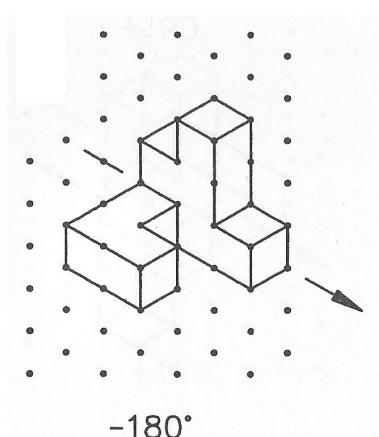


Figure 15: draw an isometric representation of the rotation specified

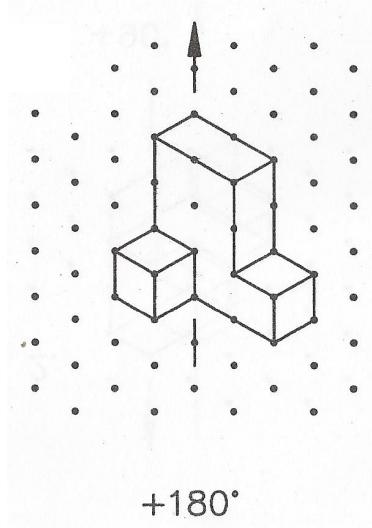


Figure 16: draw an isometric representation of the rotation specified

3 Drawing Rotations: Arrow Codes

For each of the figures below, draw a representation of the rotation specified in arrow codes.

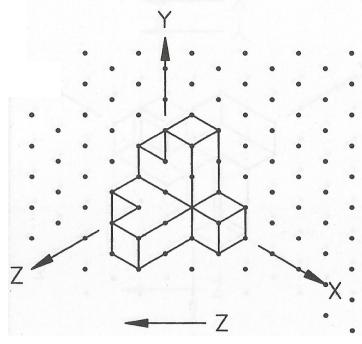


Figure 17: draw an isometric representation of the rotation specified

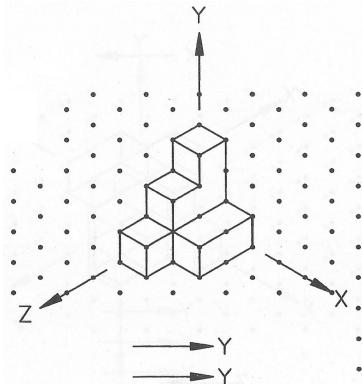


Figure 18: draw an isometric representation of the rotation specified

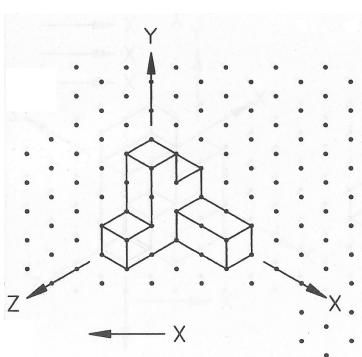


Figure 19: draw an isometric representation of the rotation specified

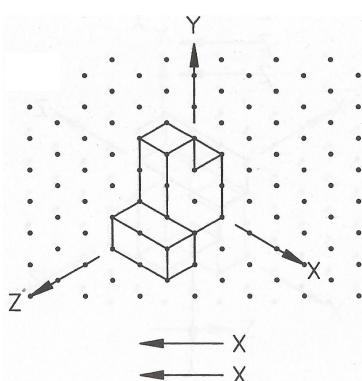


Figure 20: draw an isometric representation of the rotation specified

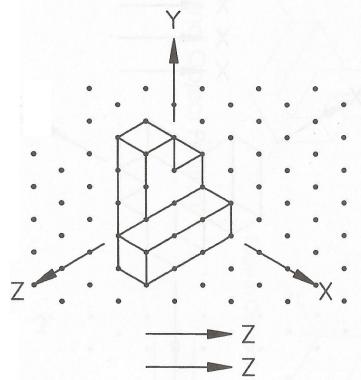


Figure 21: draw an isometric representation of the rotation specified

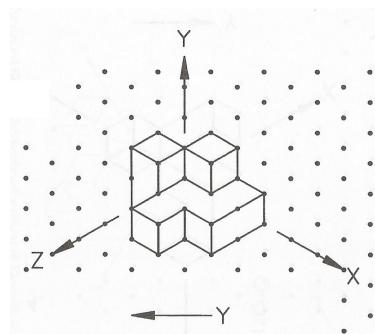


Figure 22: draw an isometric representation of the rotation specified

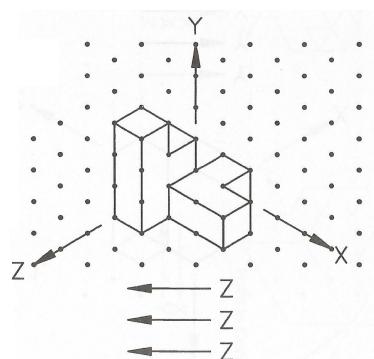


Figure 23: draw an isometric representation of the rotation specified

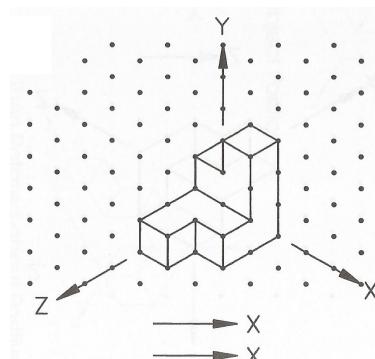


Figure 24: draw an isometric representation of the rotation specified

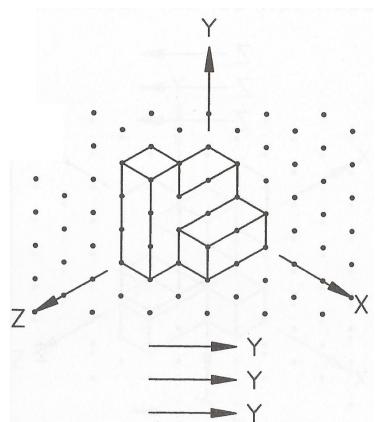


Figure 25: draw an isometric representation of the rotation specified

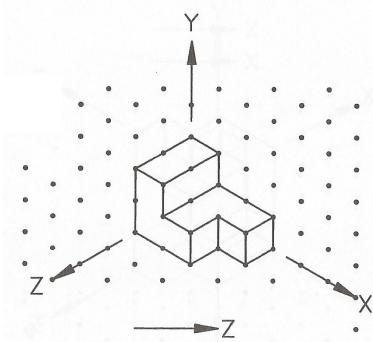


Figure 26: draw an isometric representation of the rotation specified

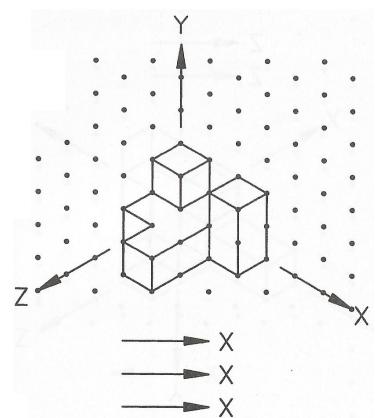


Figure 27: draw an isometric representation of the rotation specified

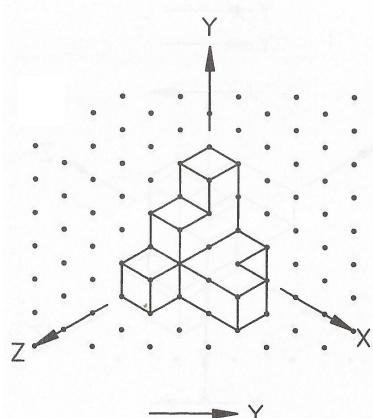


Figure 28: draw an isometric representation of the rotation specified