Missing Lines, Missing Views, and Multiview to Isometric

27 September 2017
Learning Objectives

- Identify missing lines in multiview drawings
- Create an isometric from a multiview
- Create the missing view given an incomplete multiview
More about Multiviews

- X: Width
- Y: Height
- Z: Depth
Multiview to Isometric

1) Label surfaces
2) Look at 3 views for curved or inclined surfaces
3) Determine how faces relate to each other
Possible Techniques

The following examples show possible techniques for creating isometric views from a given multi-view drawing. More than likely, you will use a combination of these techniques while solving one problem.
Developing Visualization Skills

Vertex Labeling
Developing Visualization Skills

Missing Line exercises
Developing Visualization Skills

Missing View exercises
Multi-view to Isometric

This example is more for an exercise in your head. If you draw this on paper, you may get confused.
Multi-view to Isometric
Multi-view to Isometric
Multi-view to Isometric
Multi-view to Isometric
Multi-view to Isometric

Look for contradictions
Multi-view to Isometric

Look for contradictions
Multi-view to Isometric

Look for things that don’t contradict
Multi-view to Isometric
Multi-view to Isometric

Verify any hidden lines, then remove
Multi-view to Isometric
Multi-view to Isometric

This technique quickly breaks down for objects with a lot of curved and slanted faces.
Multi-view to Isometric
In-class examples

- Missing Lines
- Multiview to isometric
- Incomplete multiview
Next Week

- Creating Auxiliary Views