

Missing Lines, Missing Views, and Multiview to Isometric

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School of Engineering Science



Learning Objectives

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

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1) Label surfaces

- Look at 3 views for curved or inclined surfaces
- Determine how faces relate to each other

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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



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Developing Visualization Skills

Missing Line exercises

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Completed multiview

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Developing Visualization Skills

Missing View exercises



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

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Multi-view to Isometric





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Look for contradictions







Look for contradictions







Look for things that don't contradict







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Verify any hidden lines, then remove









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Multi-view to Isometric



This technique quickly breaks down for objects with a lot of curved and slanted faces.







Step 7





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In-class examples

- Missing Lines
- Multiview to isometric
- Incomplete multiview

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Next Week

Creating Auxiliary Views

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