

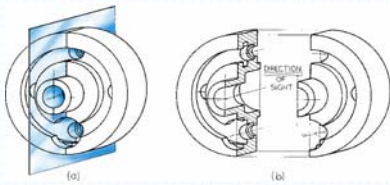


## Sectional Views

### Overview

- Sections are used to show interior details clearly.
- A cutting-plane line shows where object was cut to obtain the section view.
- Cross hatching in the section view shows the solid surface of the object which were cut through to produce the section.
- Section views may replace standard views.
- Conventional practices, such as not showing hatching on ribs and webs, help make sections easier to interpret correctly.

### Full Section



- Imagine the object cut through by the cutting plane. Think of the two halves pulled apart and a view looking on to the cut half.

### Lines in Sectioning

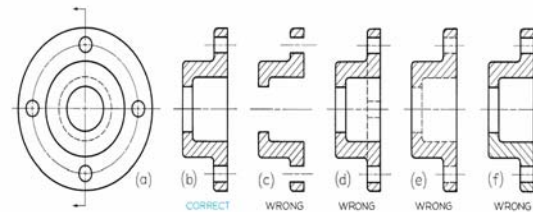
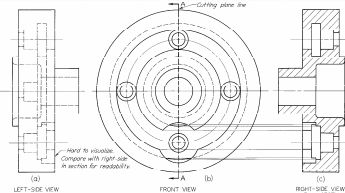


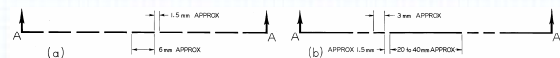
FIGURE 1.1 Lines in Sectioning

### Full Sections

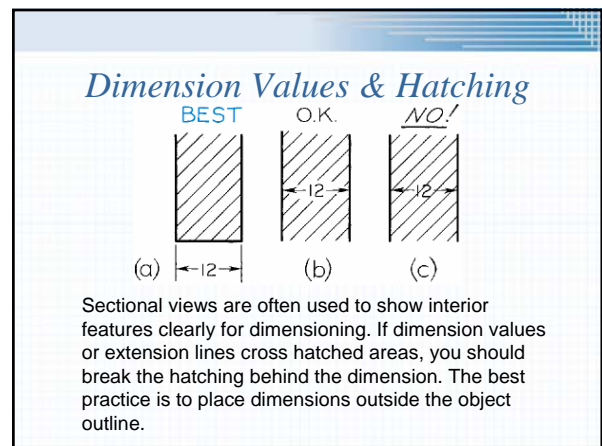
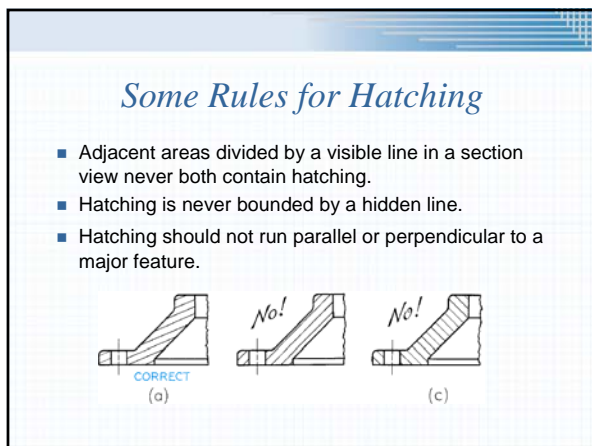
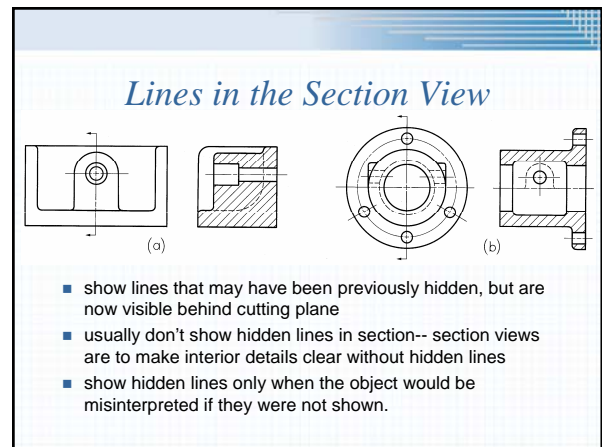
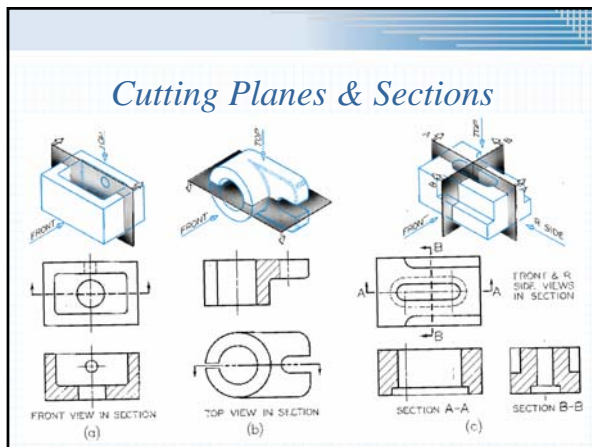
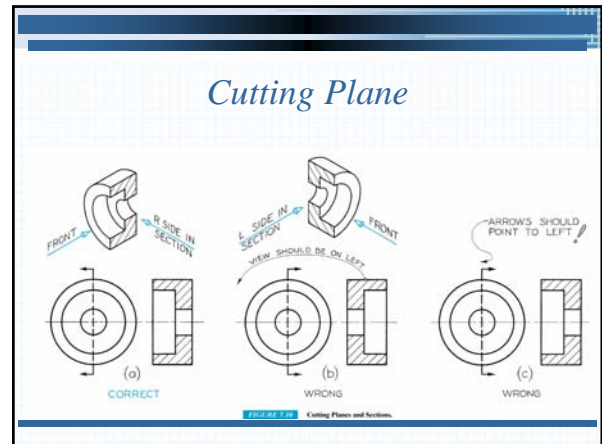
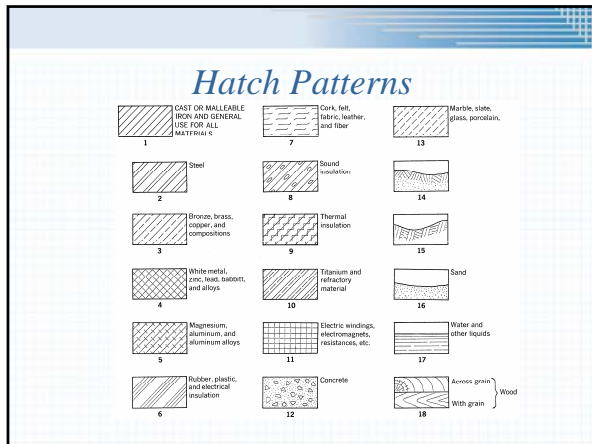


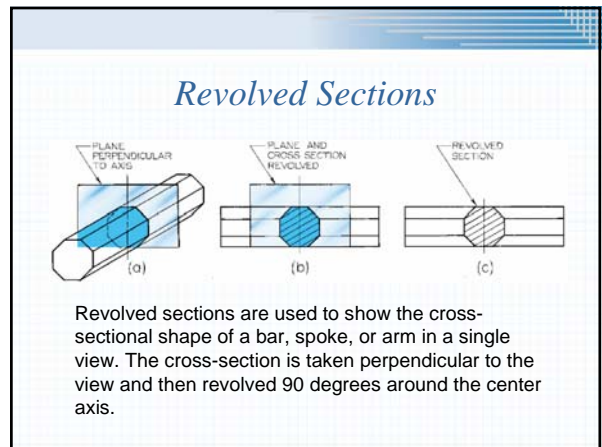
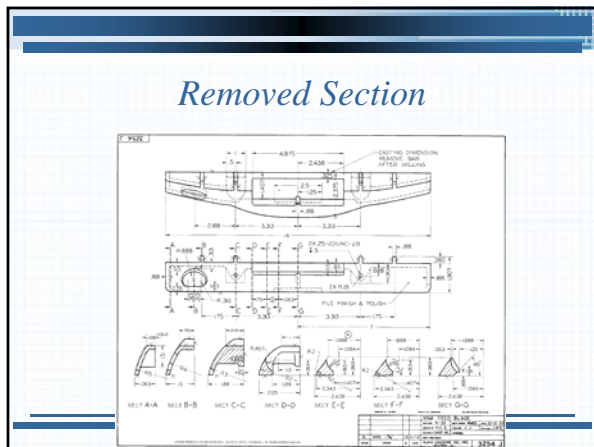
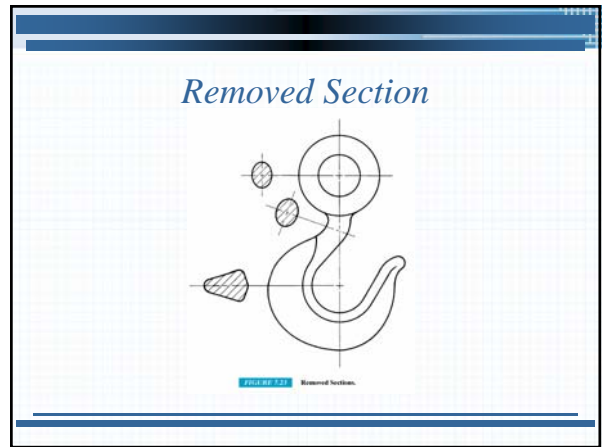
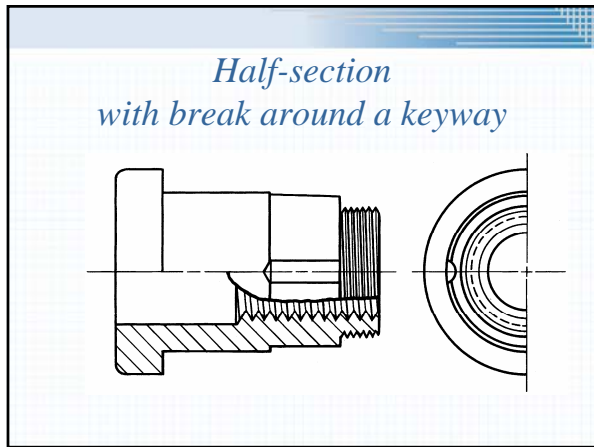
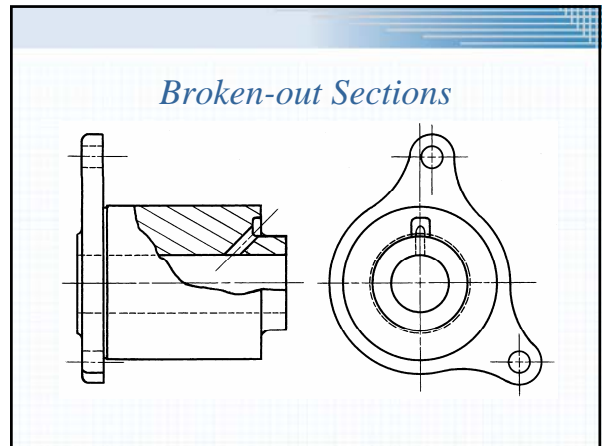
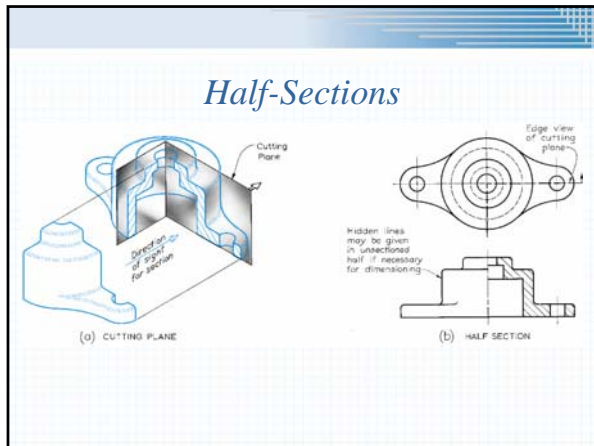
- Full sections show the object cut in half
- Cutting plane line can be left out because it is understood to be through center
- Usually replaces a standard view

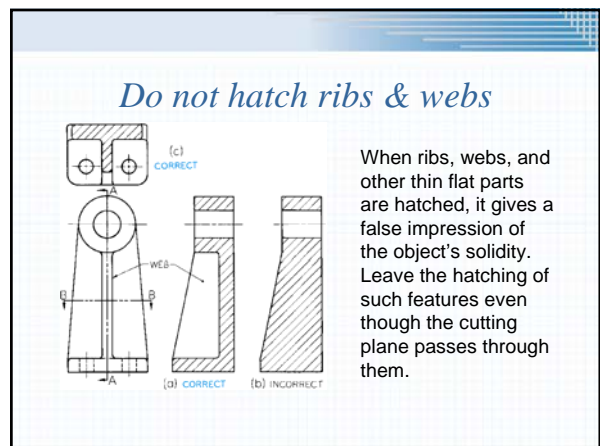
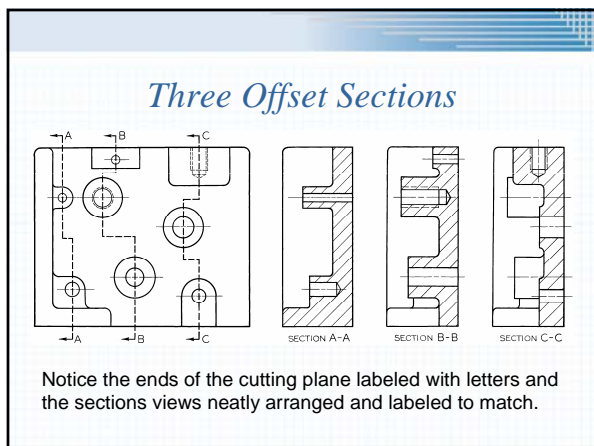
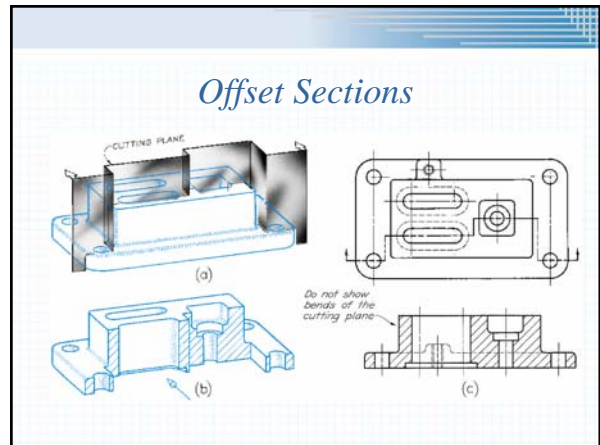
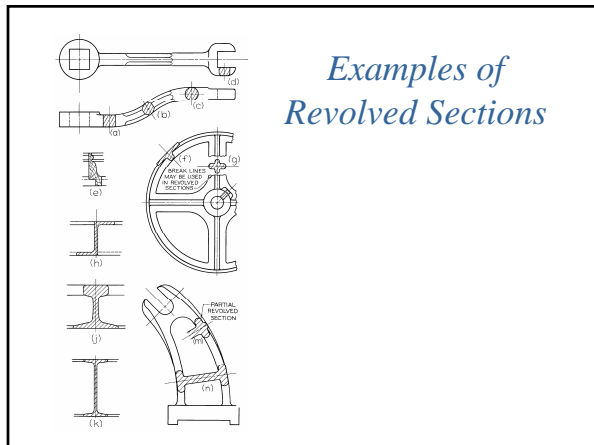
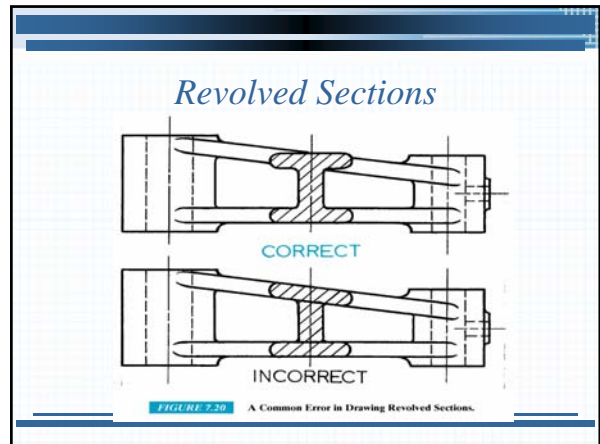
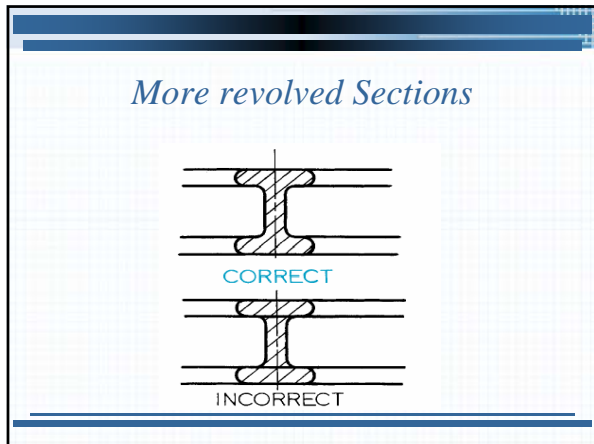
### The Cutting Plane Line



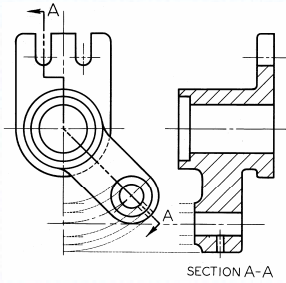
- The cutting plane line is a thick dark line which uses one of the special patterns shown above.
- The cutting plane line can be left out when it is obvious where it must lie from the appearance of the section itself.





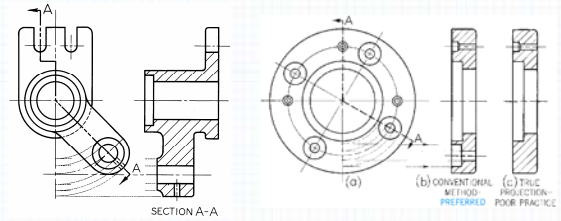


## Aligned Sections

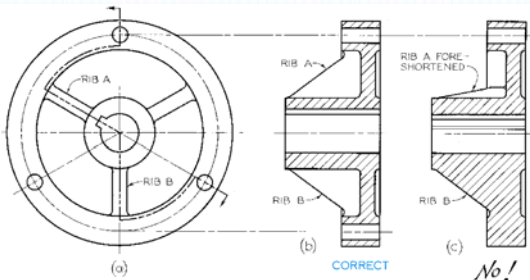


Aligned sections use an angled cutting plane to pass through angled features. The plane and feature are then imagined to be revolved into the original plane and the section projected from there

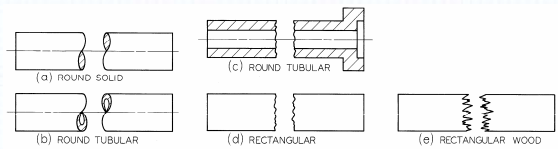
## Examples of Aligned Sections



## Revolve Symmetrical Features



## Conventional Breaks



## Isometric Half-Sections

