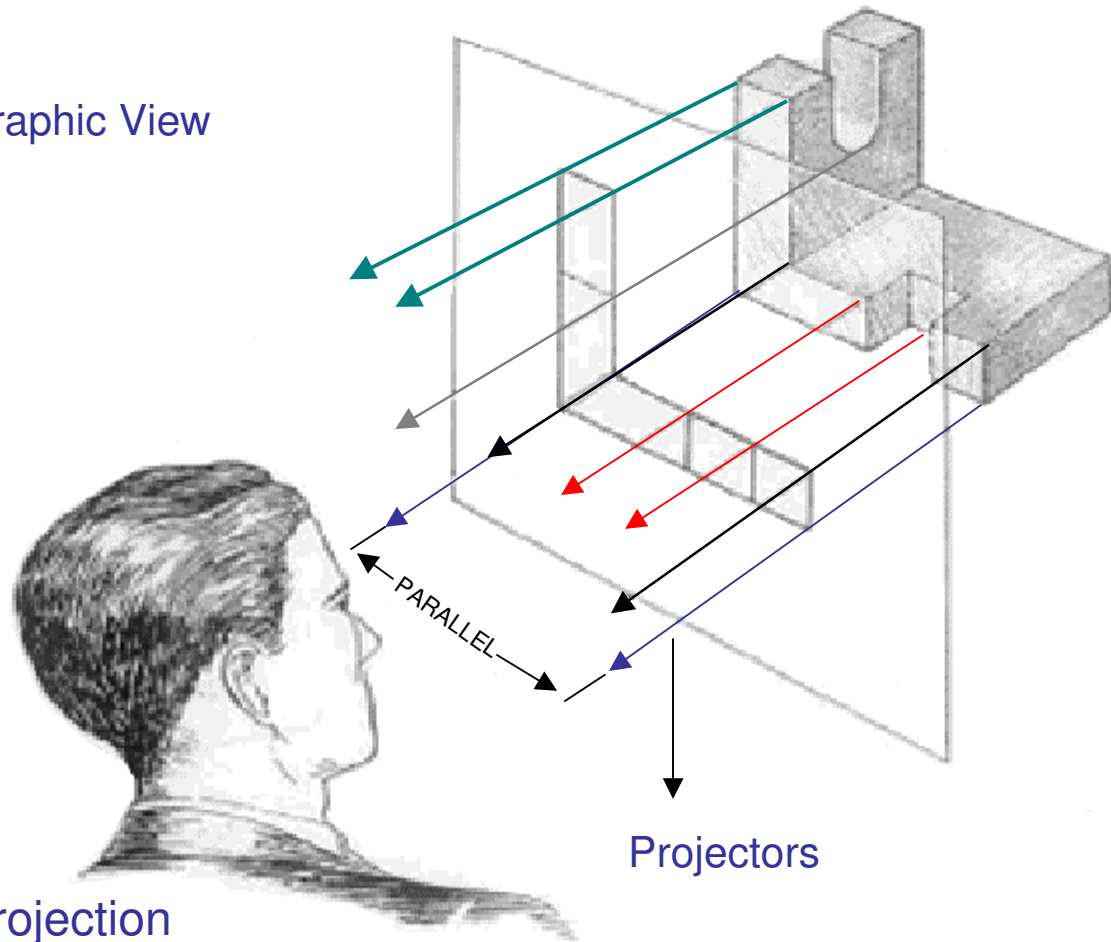


Perspective Projection

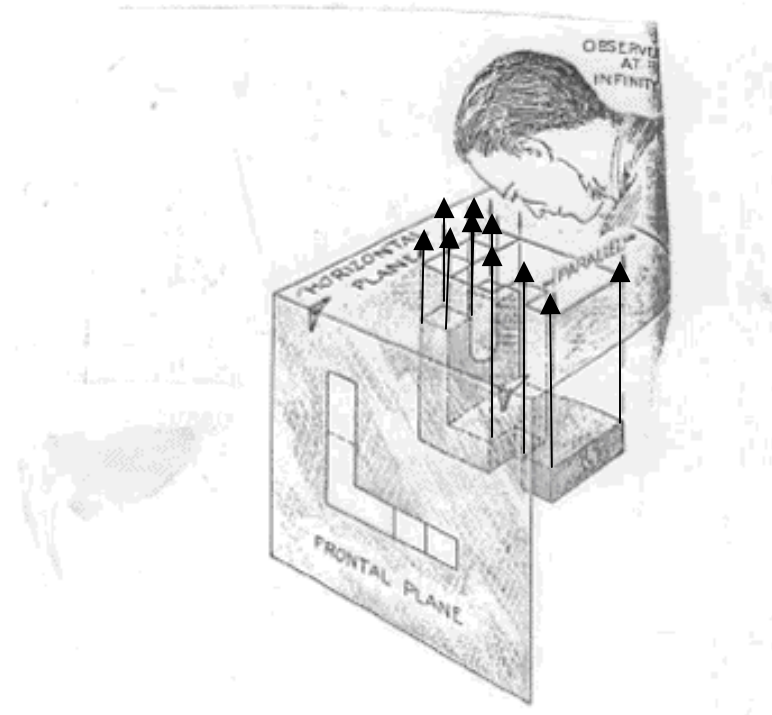
- All dimensions are foreshortened – size function of where is the picture plane?
- Pleasing to eyes; draw what we see; camera does the same
- Is it a good idea?
- What happens if the observer is at infinite distance?
- Now, does the position of picture plane matter?

Describe the Shape: Theory of Projections

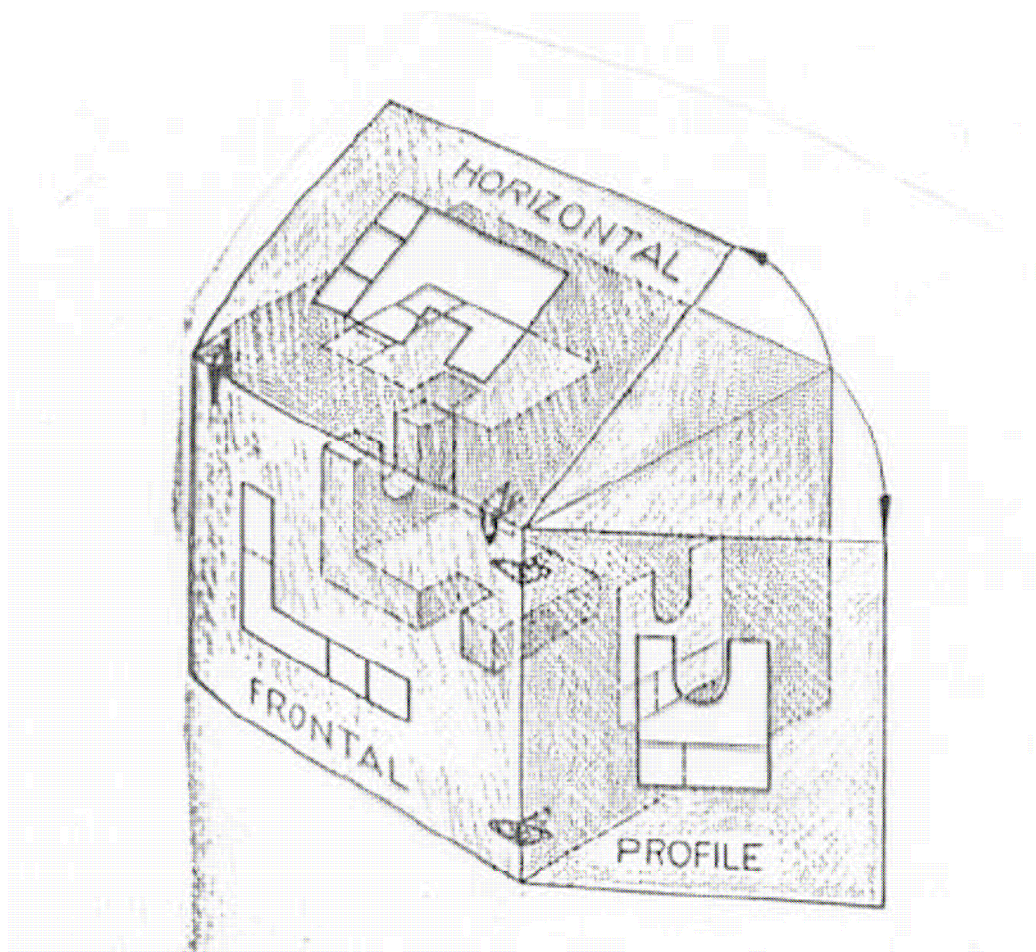
Orthographic View



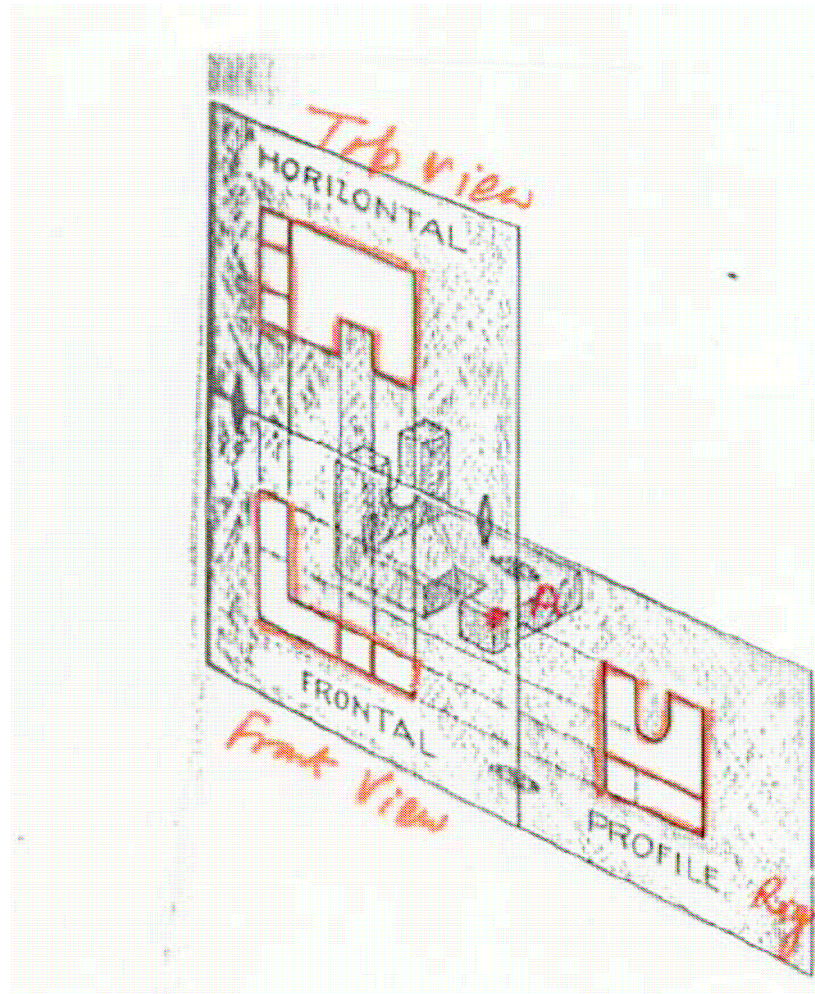
Orthographic Projection
Improvement? Is Object fully defined?



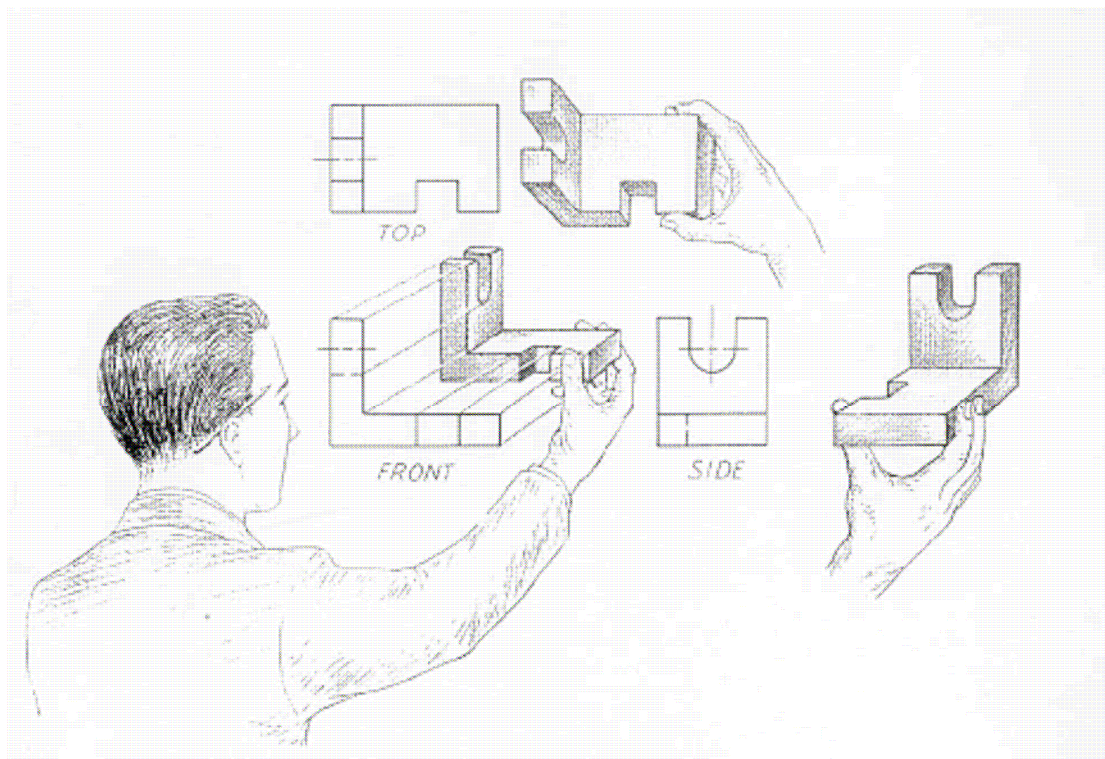
Planes of Projection



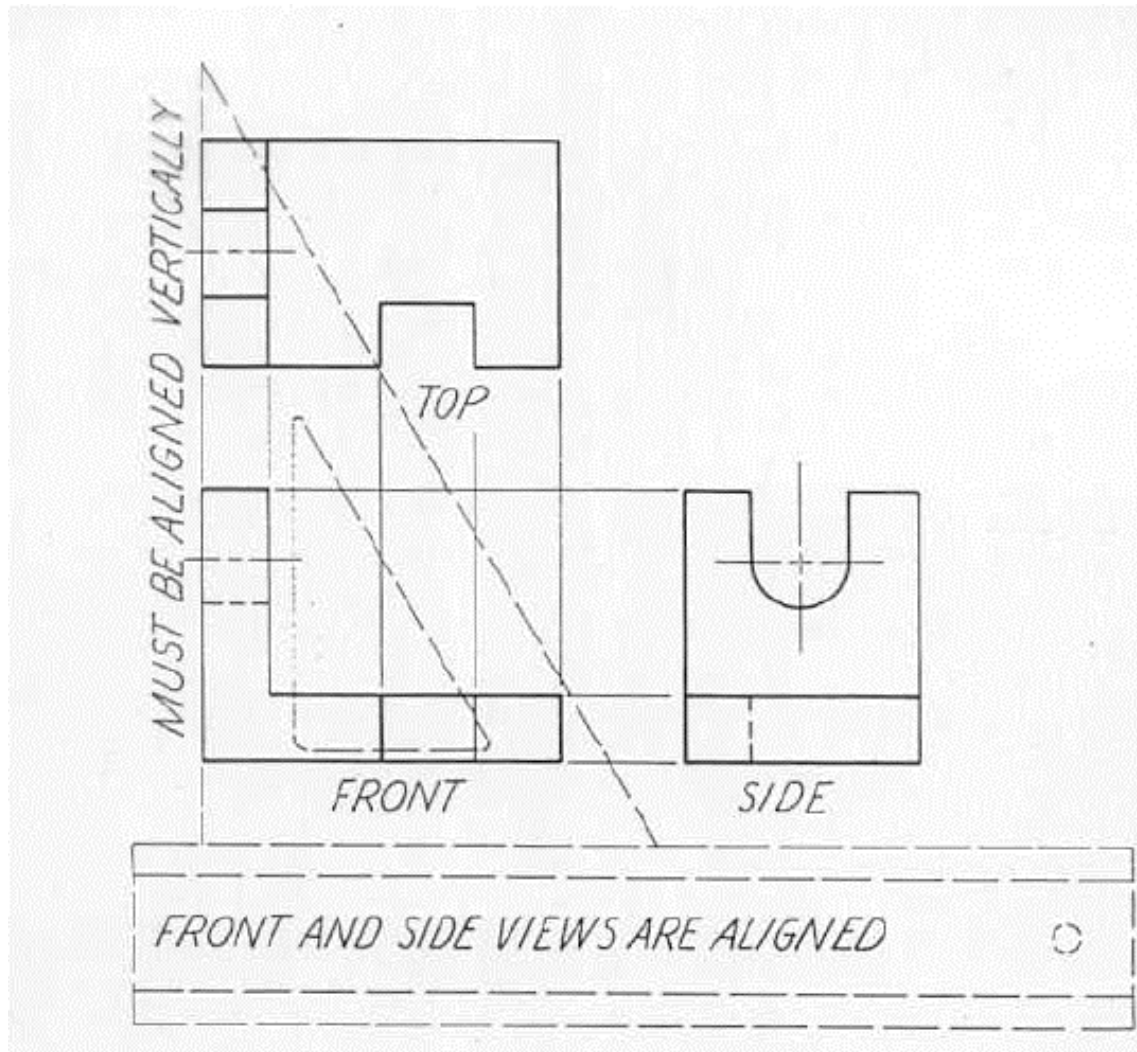
Revolution of the planes of projection



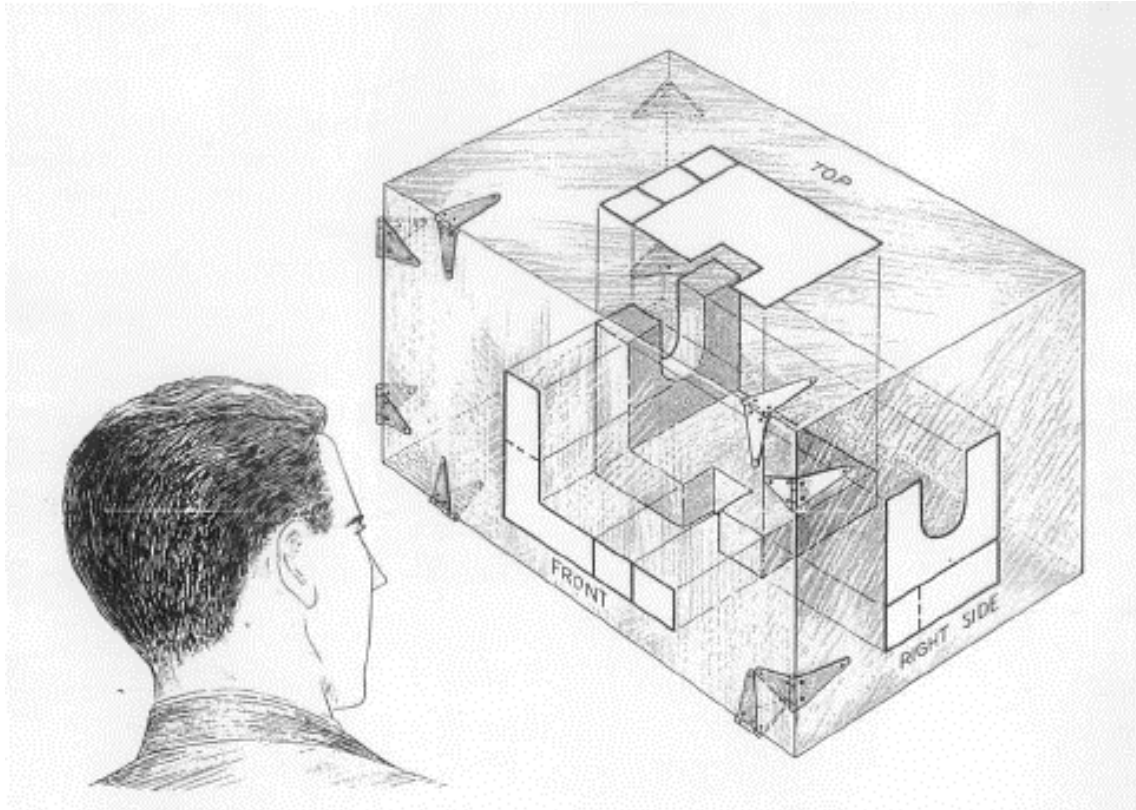
Planes revolved into the plane of the paper



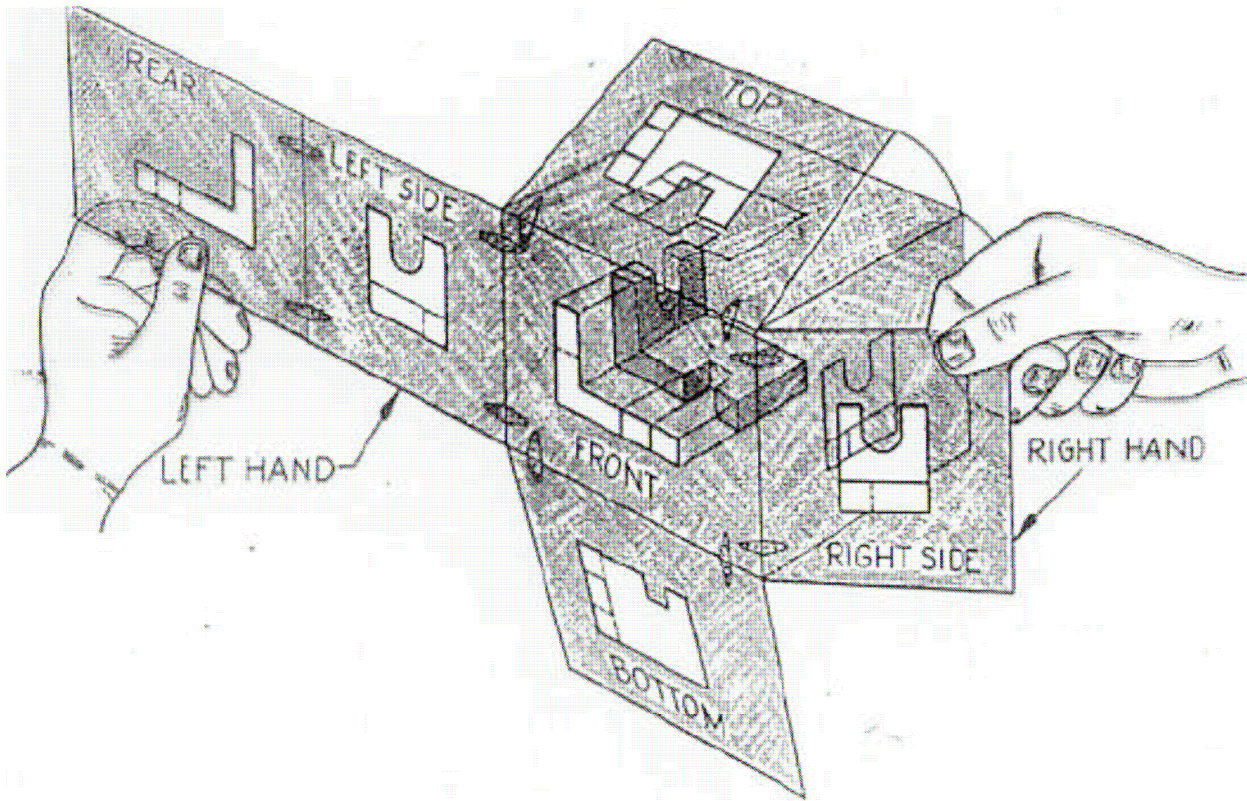
Obtaining three views of an object



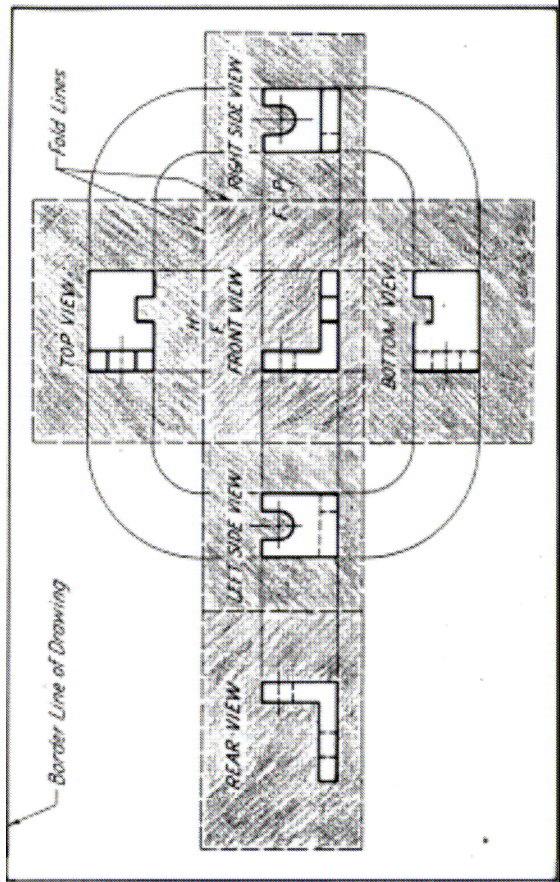
Position of views



Glass box



Opening the glass box



Six views of an object on a sheet of drawing paper