

Figure 8-1
Regular Views and Auxiliary Views.

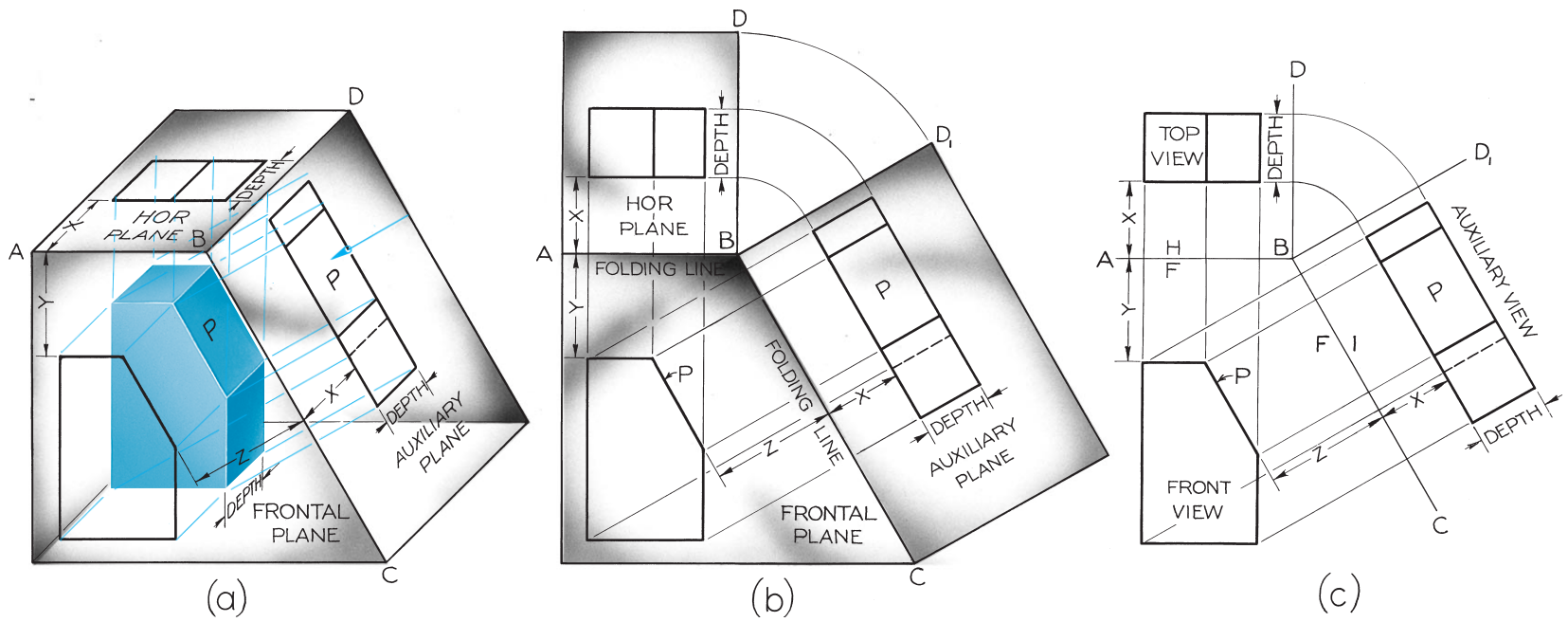


Figure 8-2
An Auxiliary View.

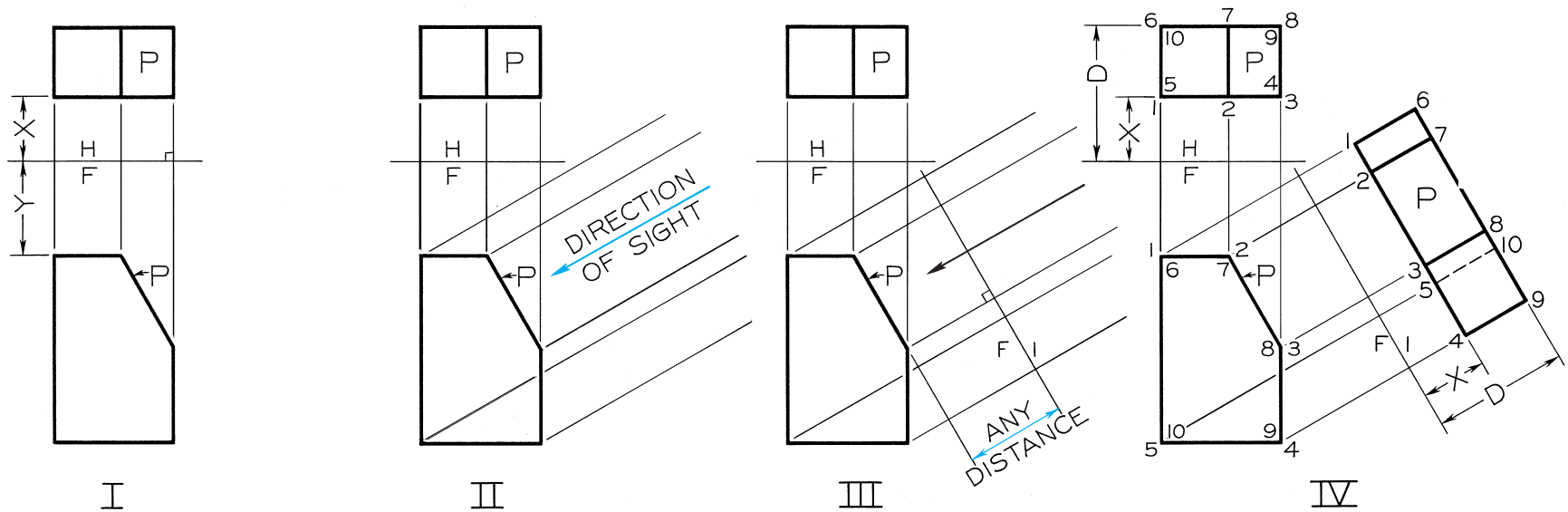


Figure 8-3

Drawing an Auxiliary View—Folding-Line Method.

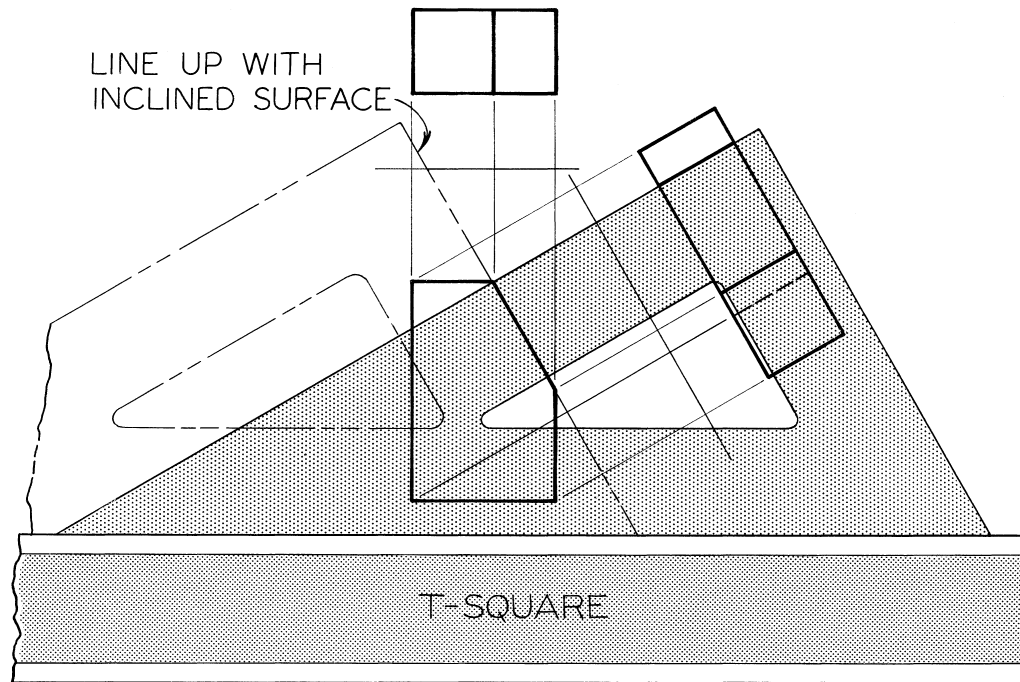


Figure 8-4
Drawing Parallel or Perpendicular Lines.

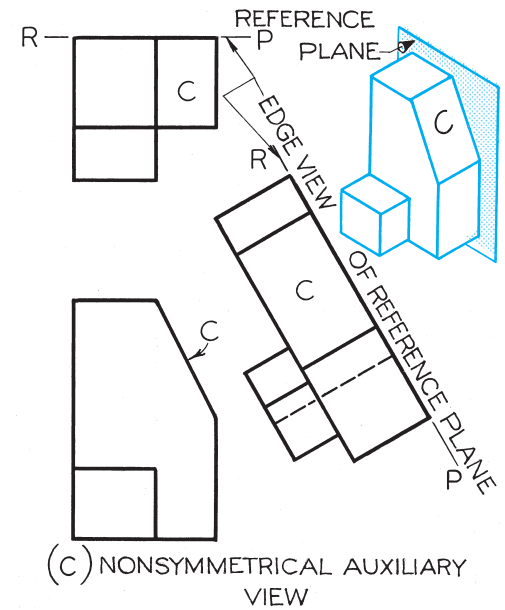
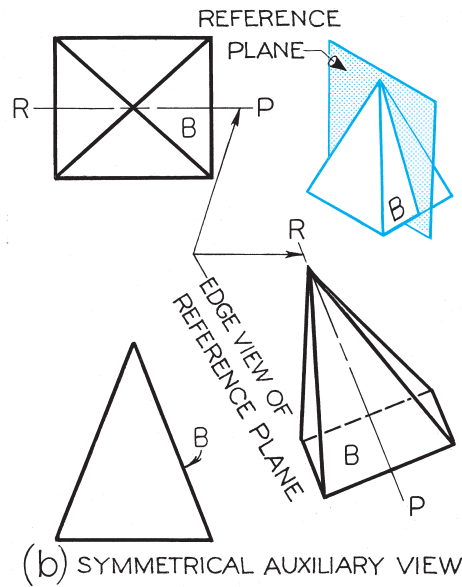
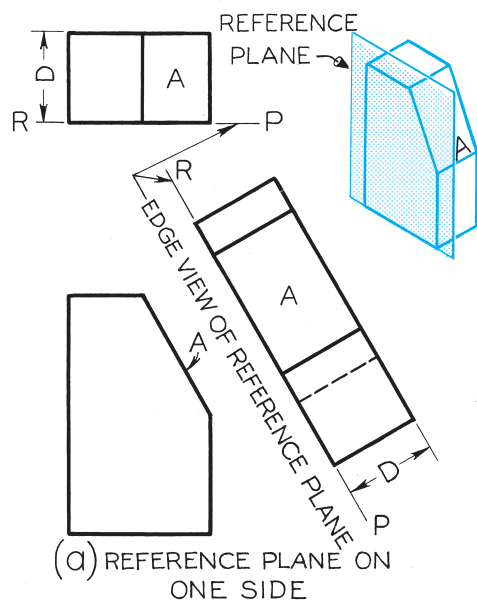


Figure 8-5
Position of the Reference Plane.

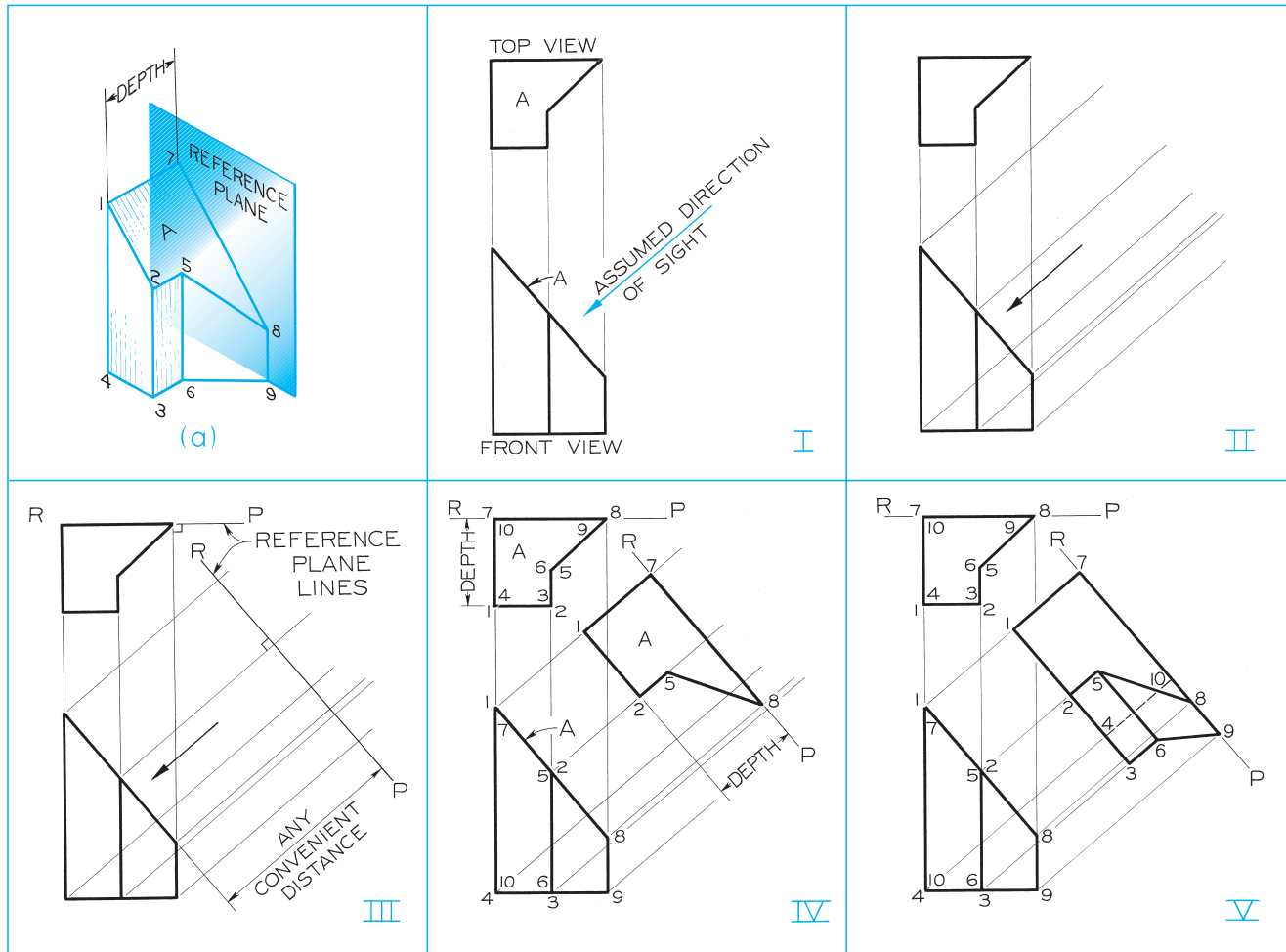


Figure 8-6

Drawing an Auxiliary View—Reference-Plane Method.

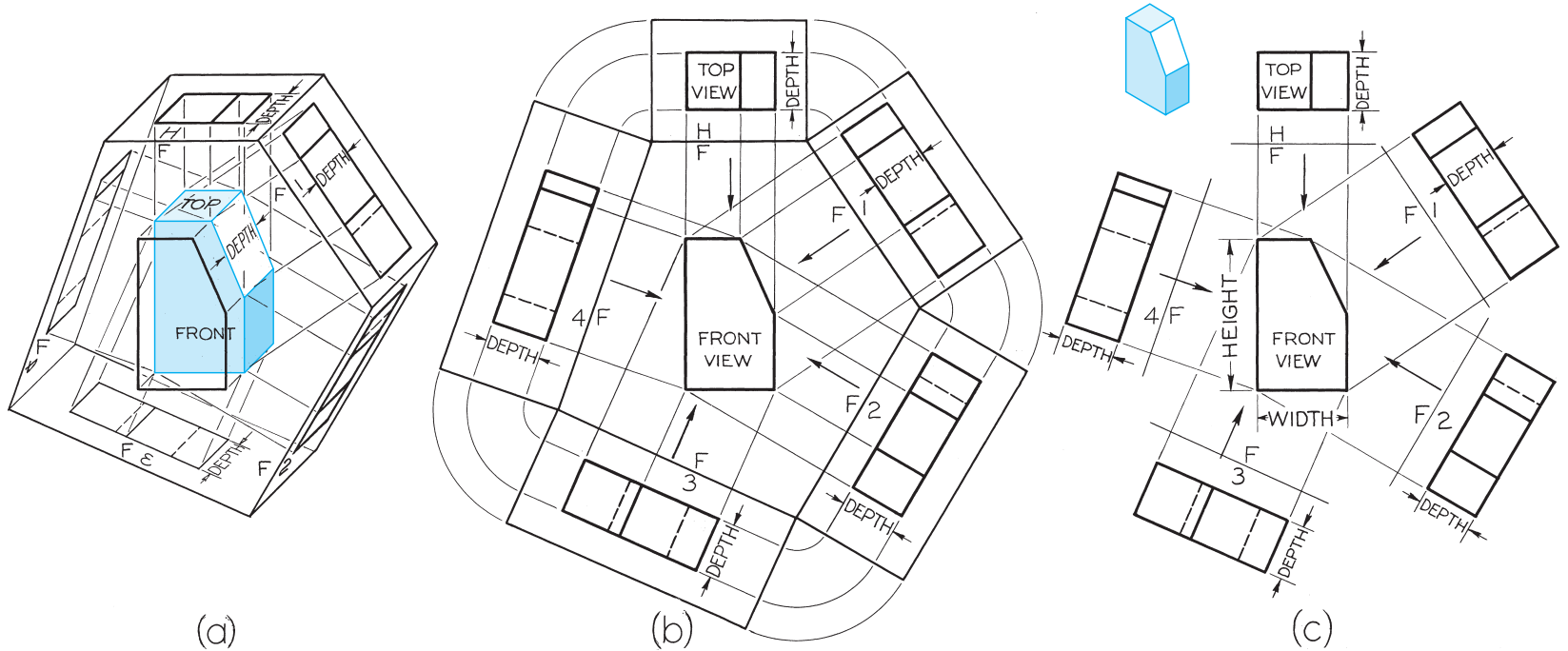


Figure 8-7
Depth Auxiliary Views.

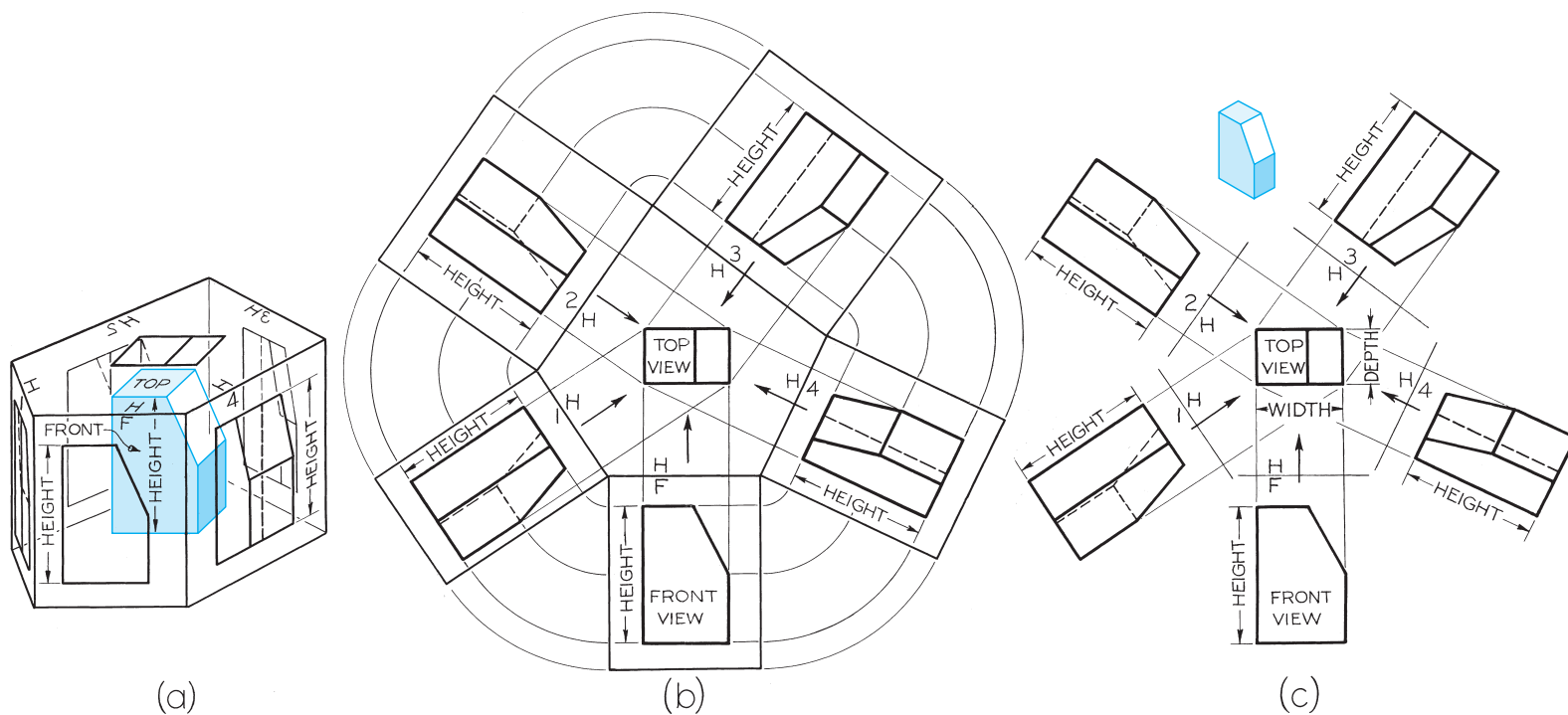


Figure 8-8
Height Auxiliary Views.

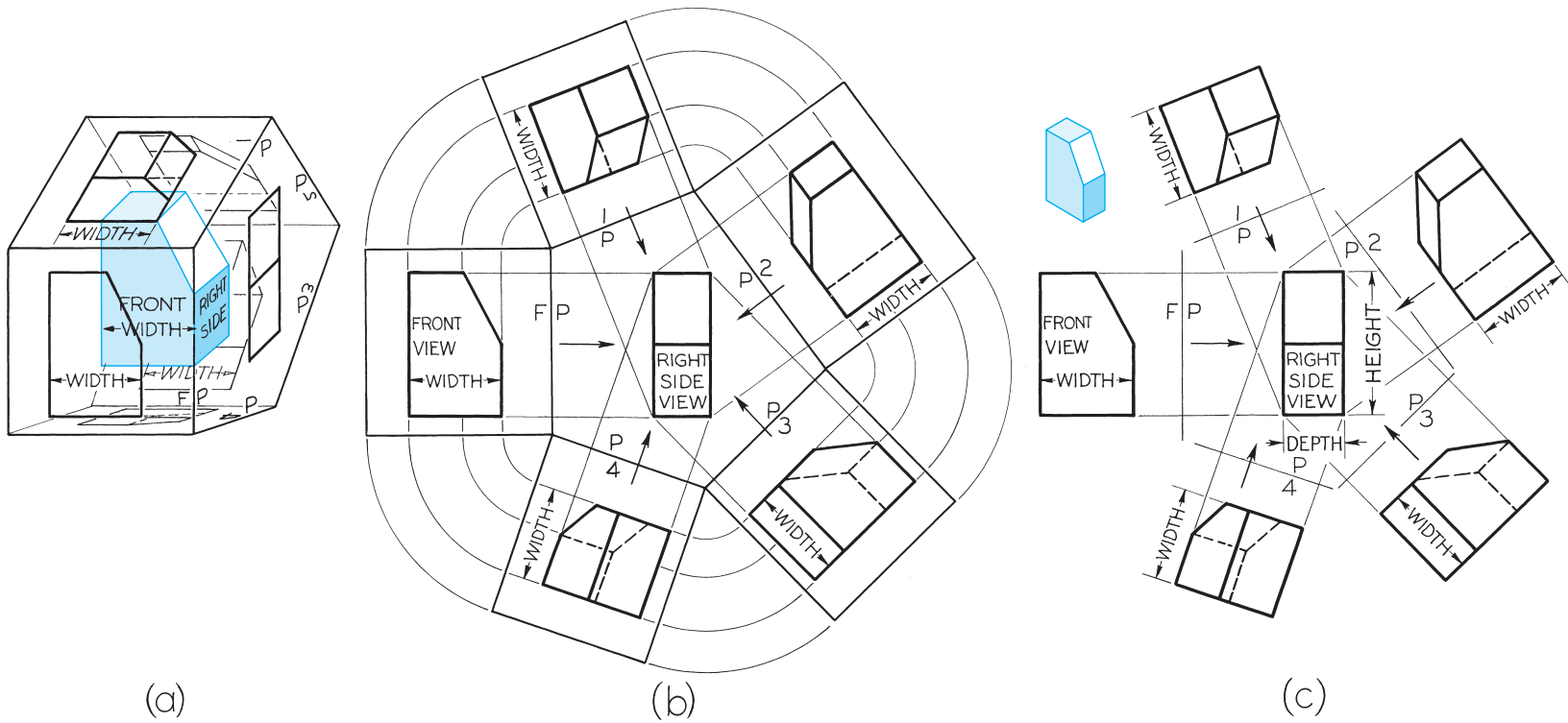
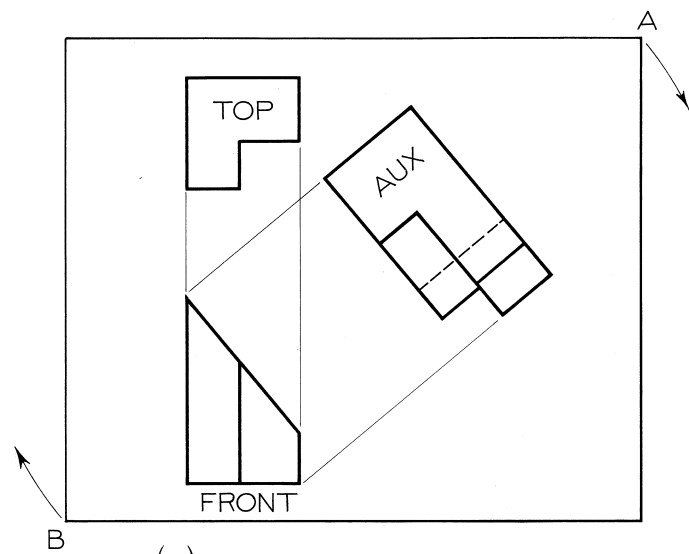
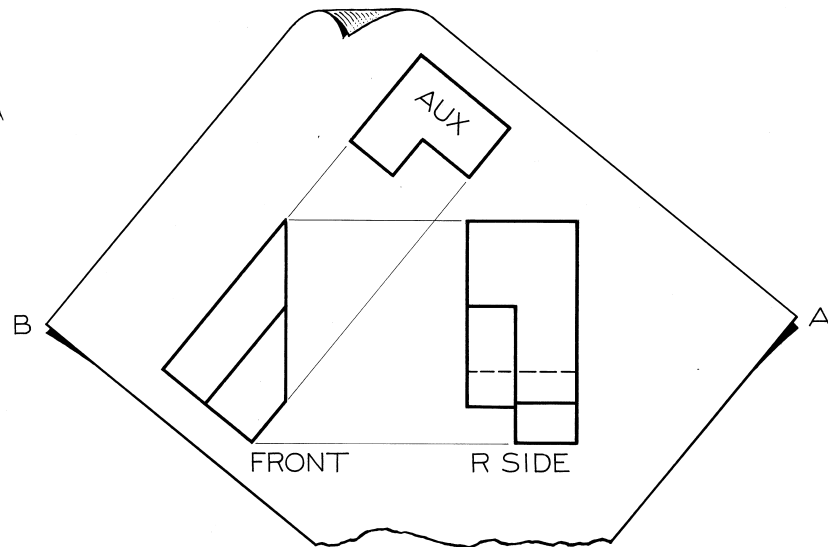


Figure 8-9
Width Auxiliary Views.



(a) GIVEN DRAWING



(b) REVOLVED DRAWING

Figure 8-10
Revolving a Drawing.

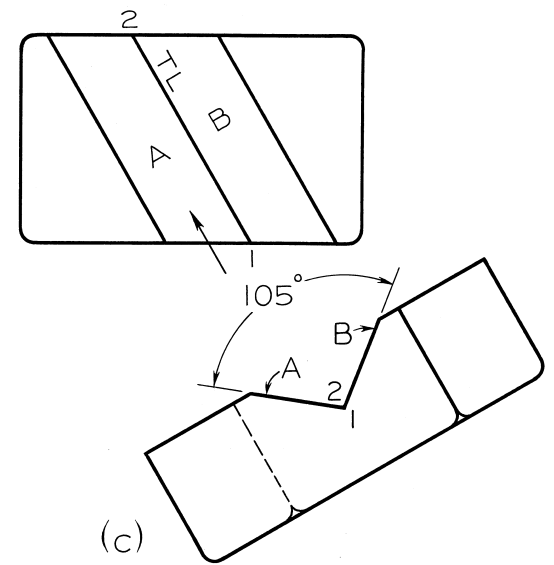
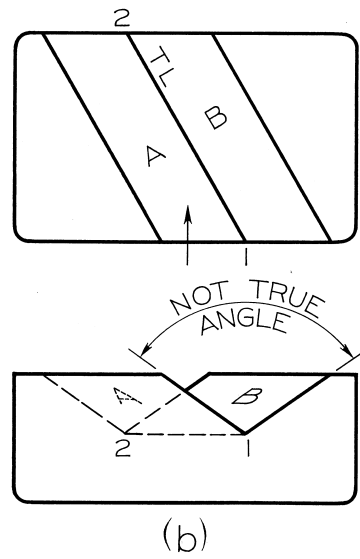
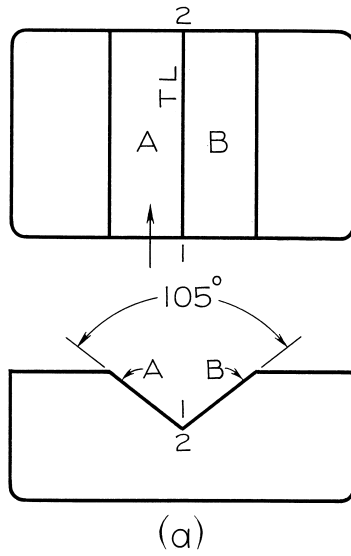


Figure 8-11
Dihedral Angles.

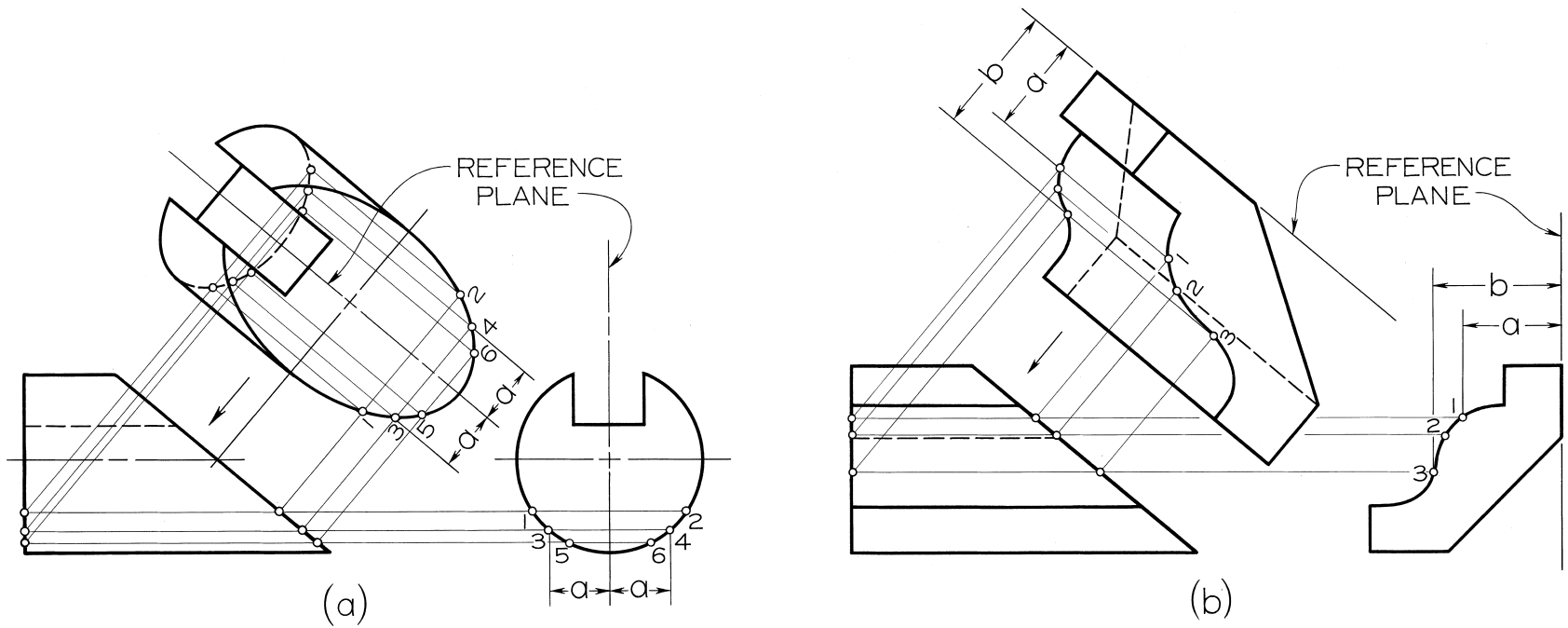


Figure 8-12
Plotted Curves.

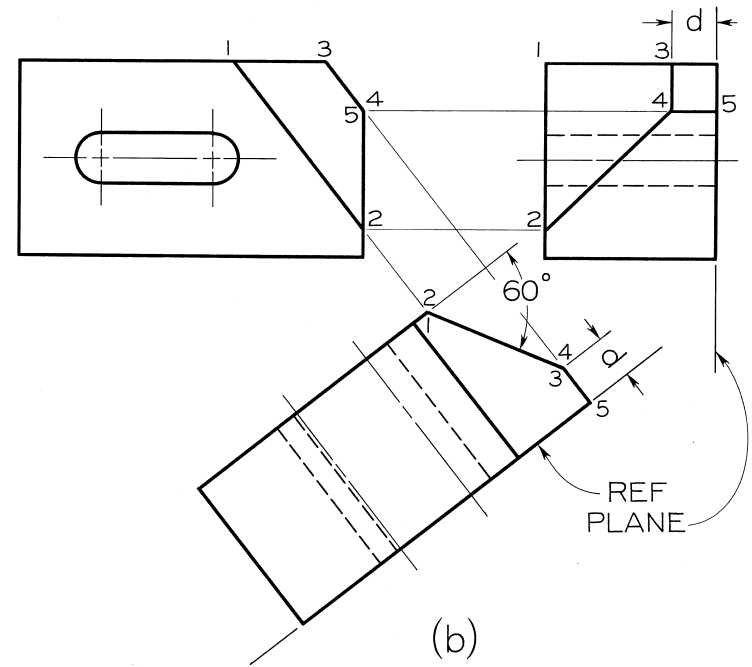
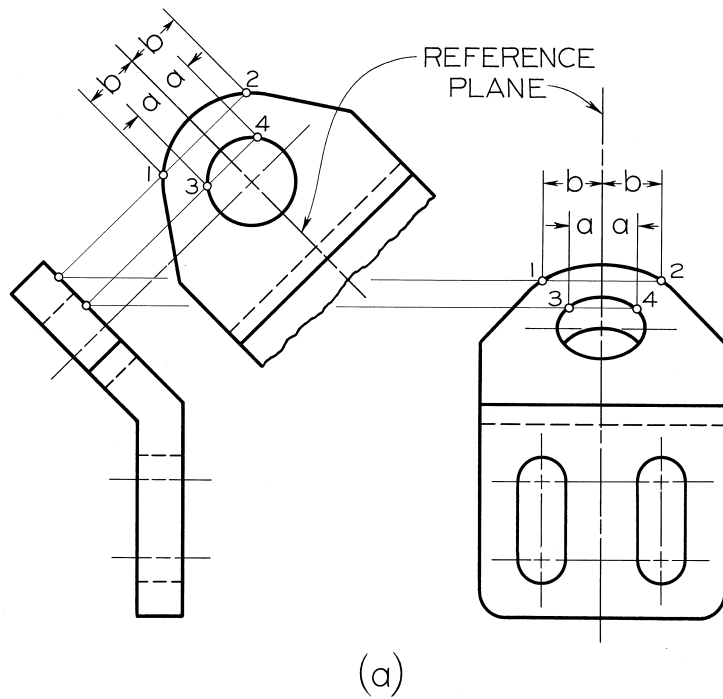


Figure 8-13
Reverse Construction.

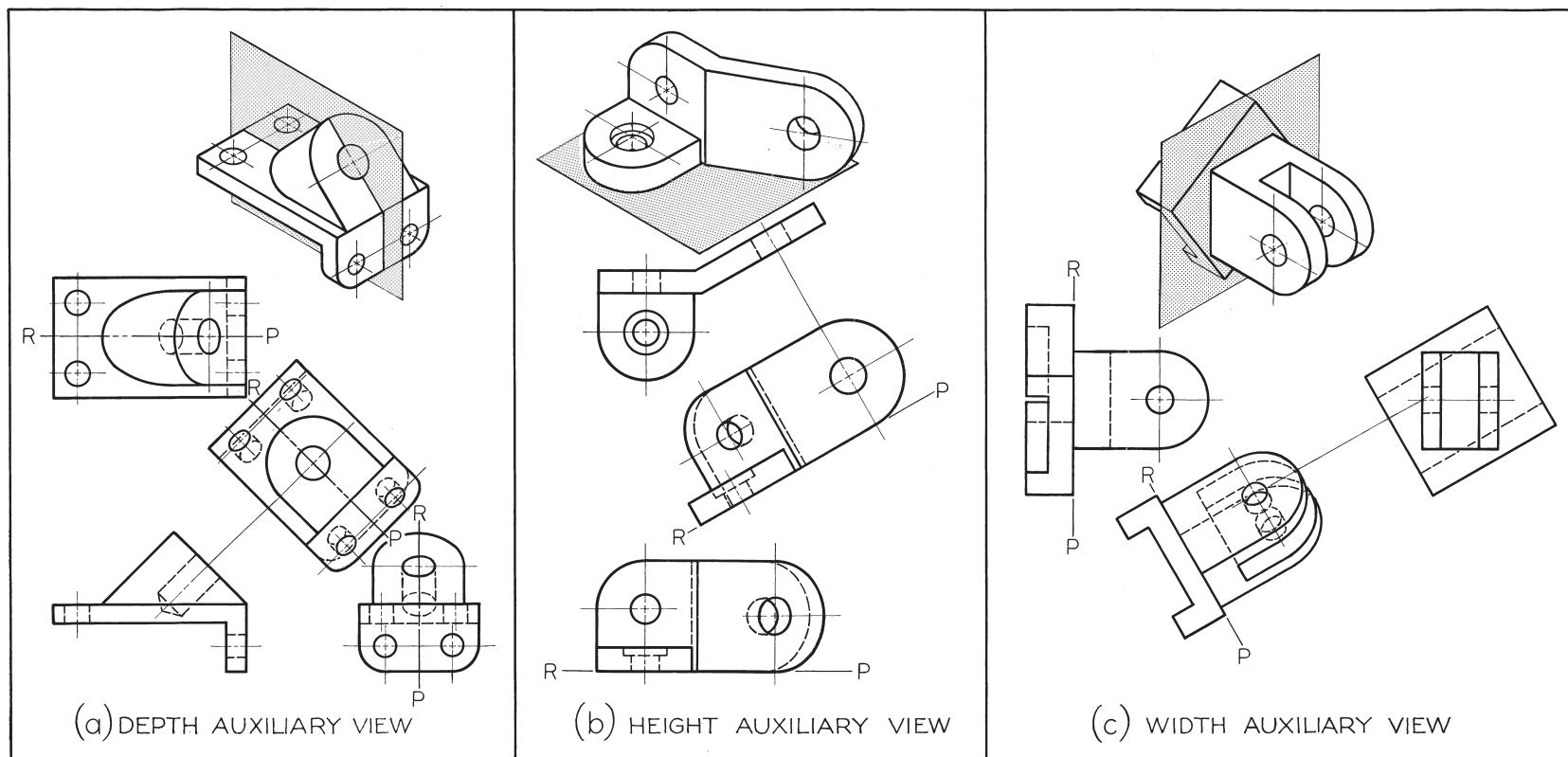


Figure 8-14
Primary Auxiliary Views.

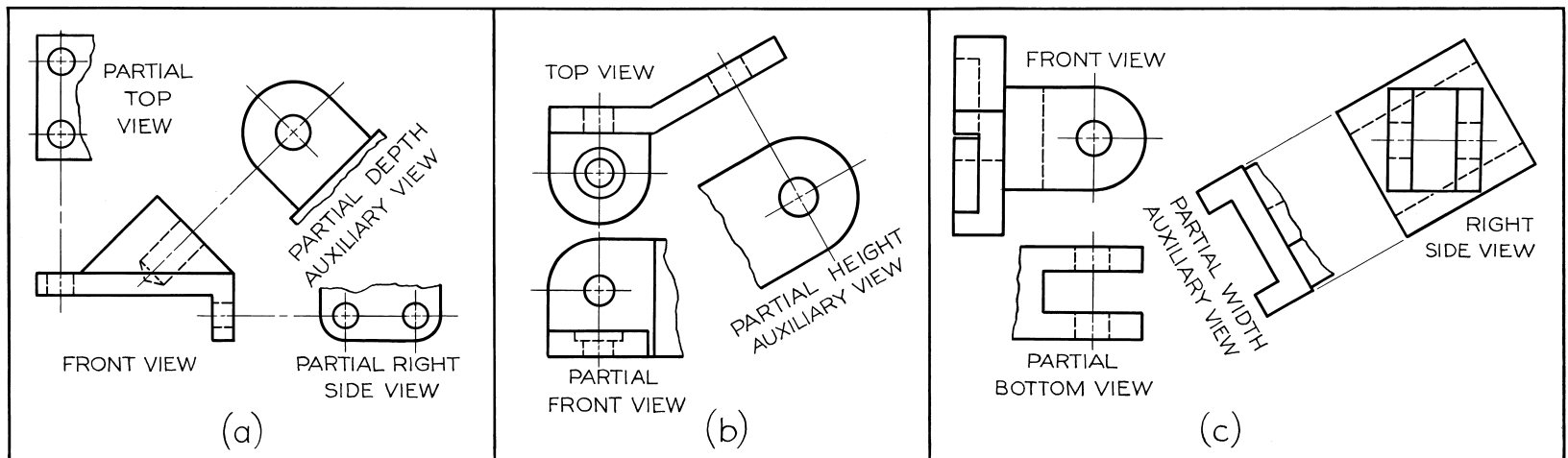


Figure 8-15
Partial Views.

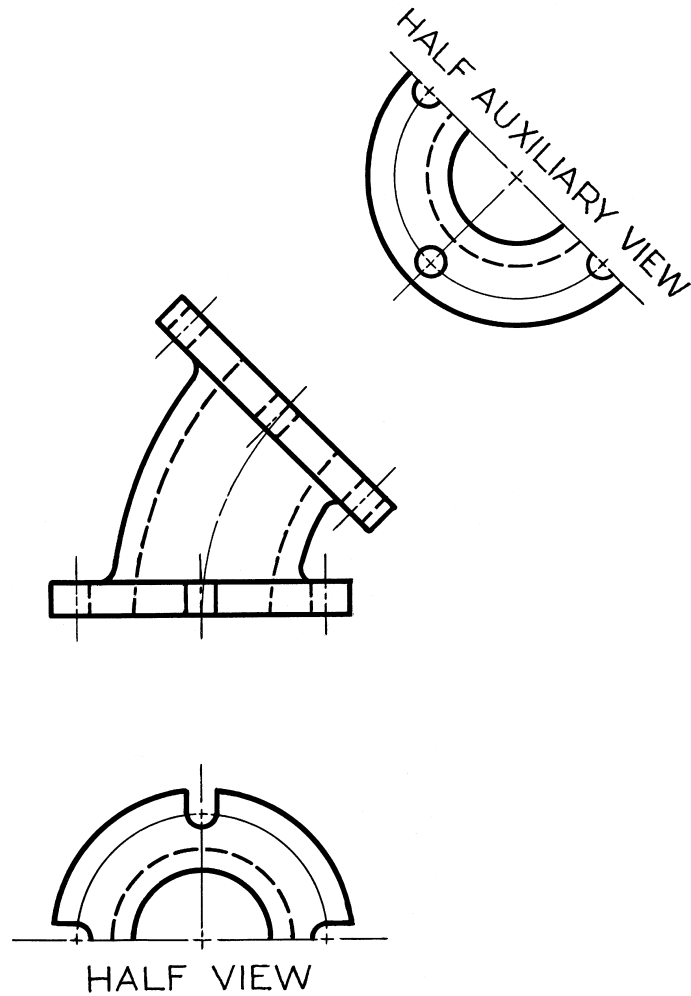


Figure 8-16
Half Views.

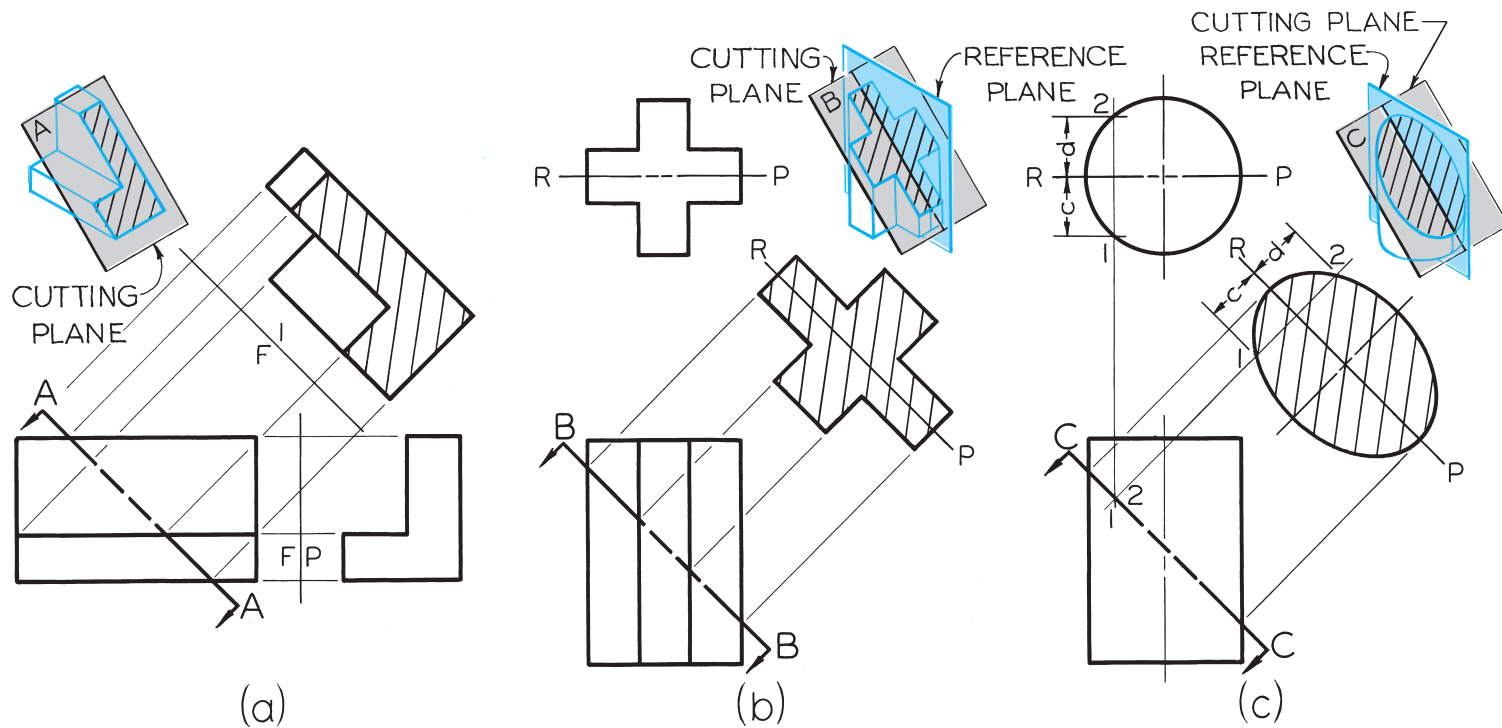


Figure 8-17
Auxiliary Sections.

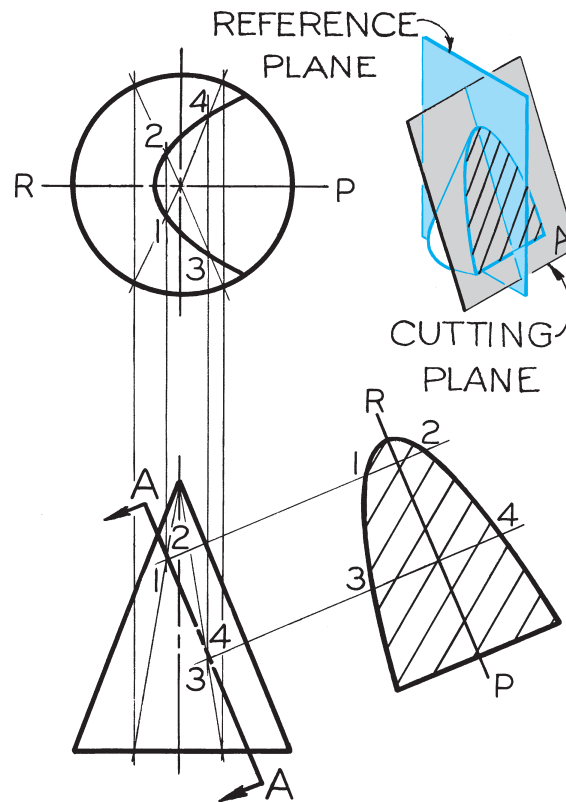


Figure 8-18
Auxiliary Section.

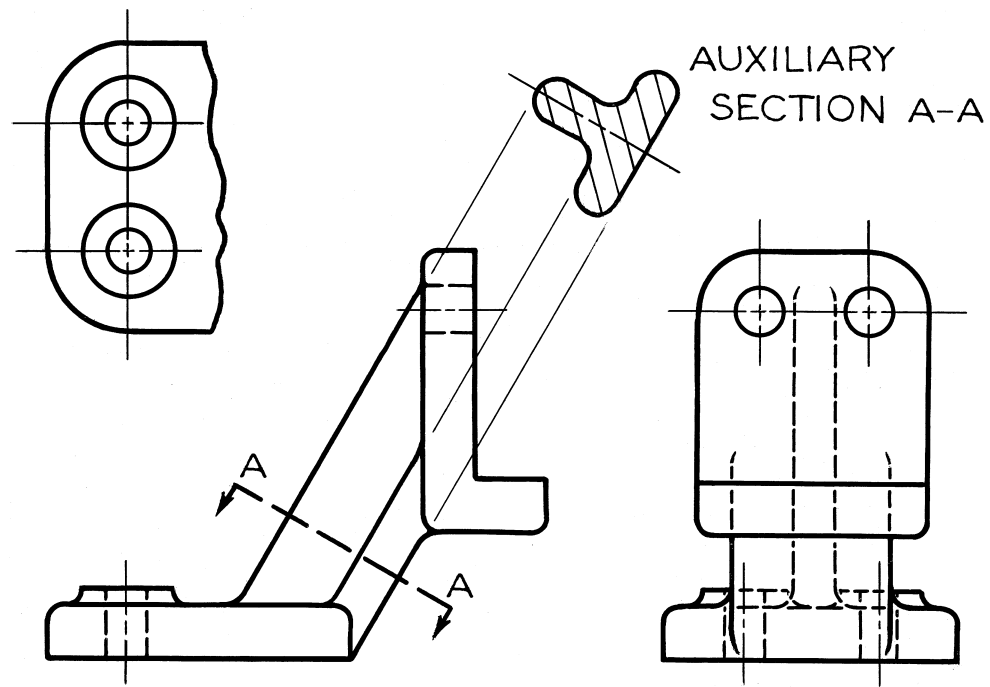


Figure 8-19
Auxiliary Section.

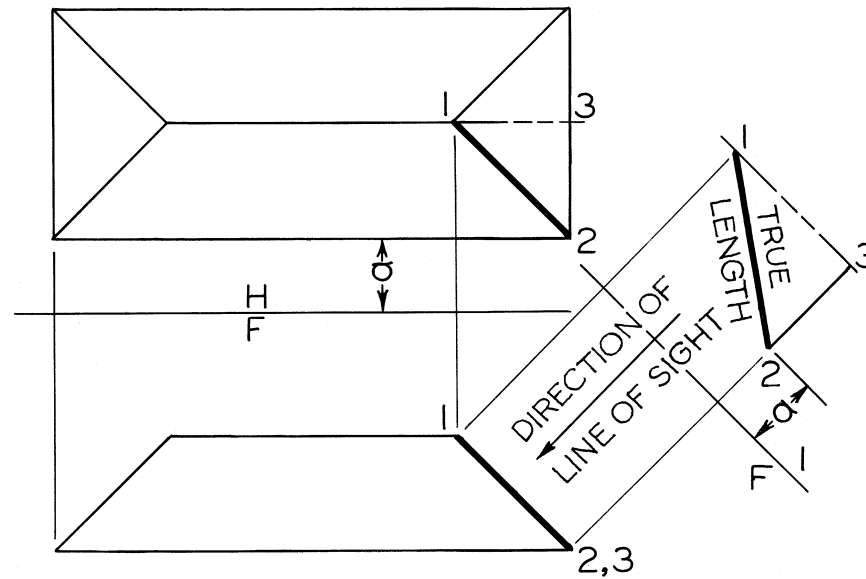


Figure 8-20

True Length of a Line by Means of an Auxiliary View.

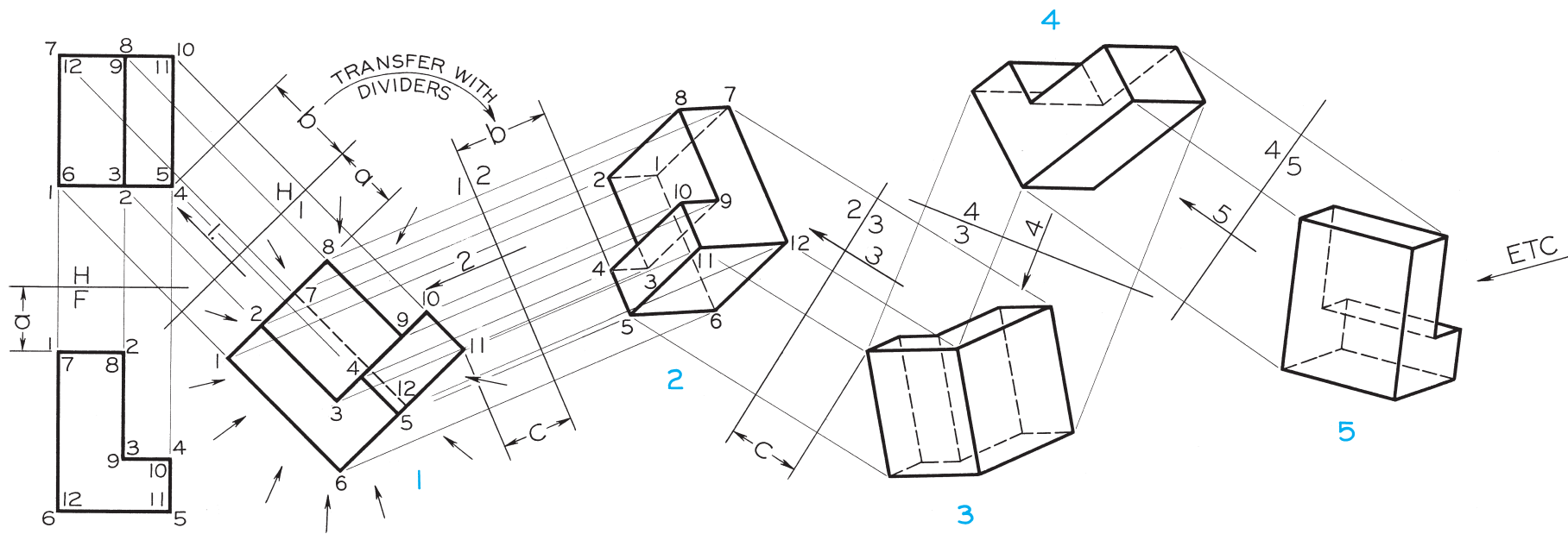


Figure 8-21
Successive Auxiliary Views.

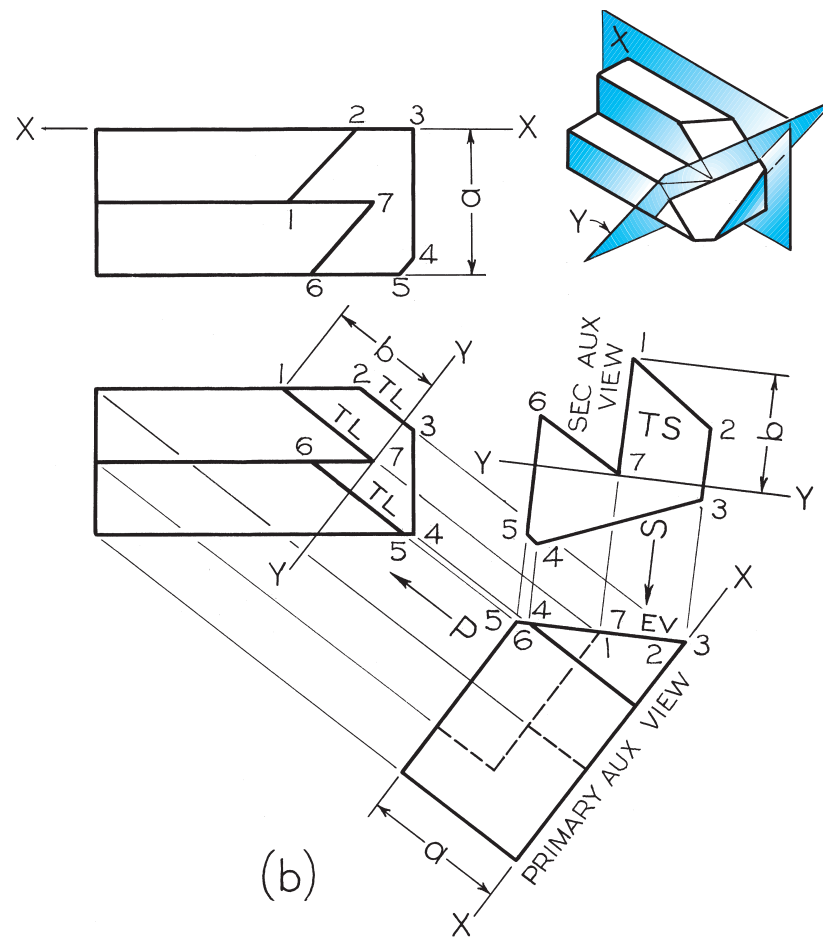
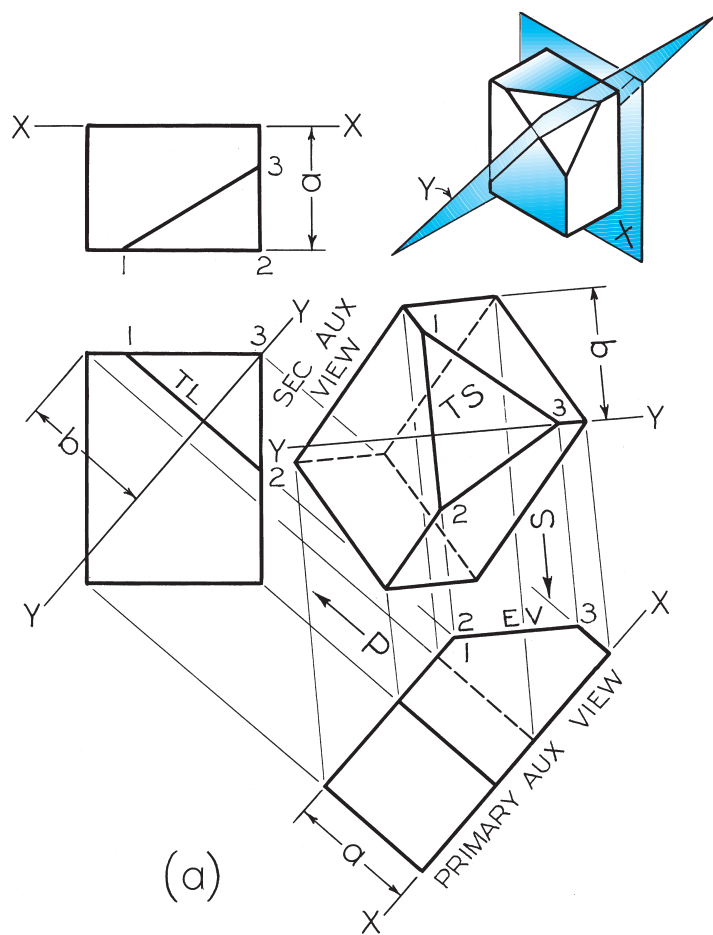


Figure 8-23
True Size of Oblique Surface—Reference-Plane Method.

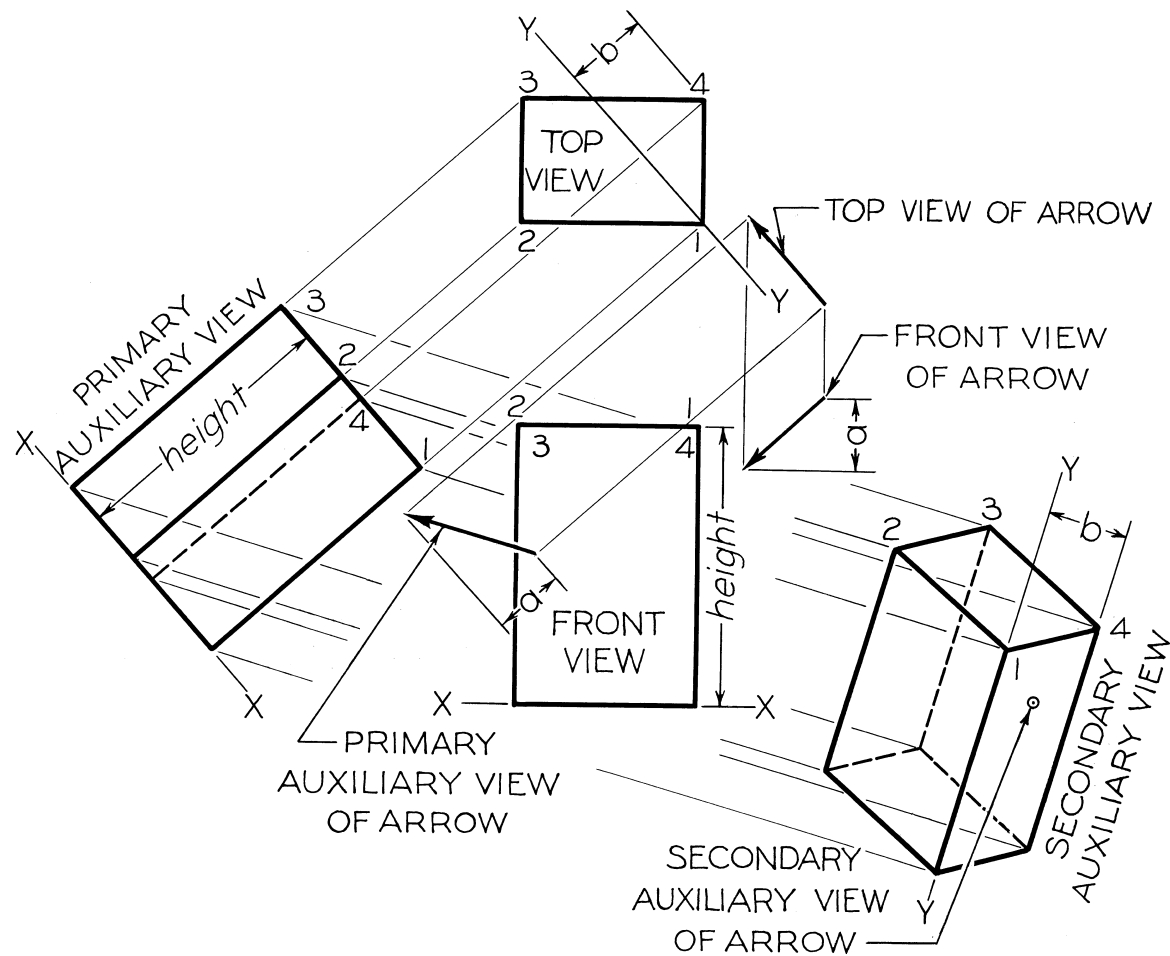


Figure 8-24

Secondary Auxiliary View with Oblique Direction of Sight Given.

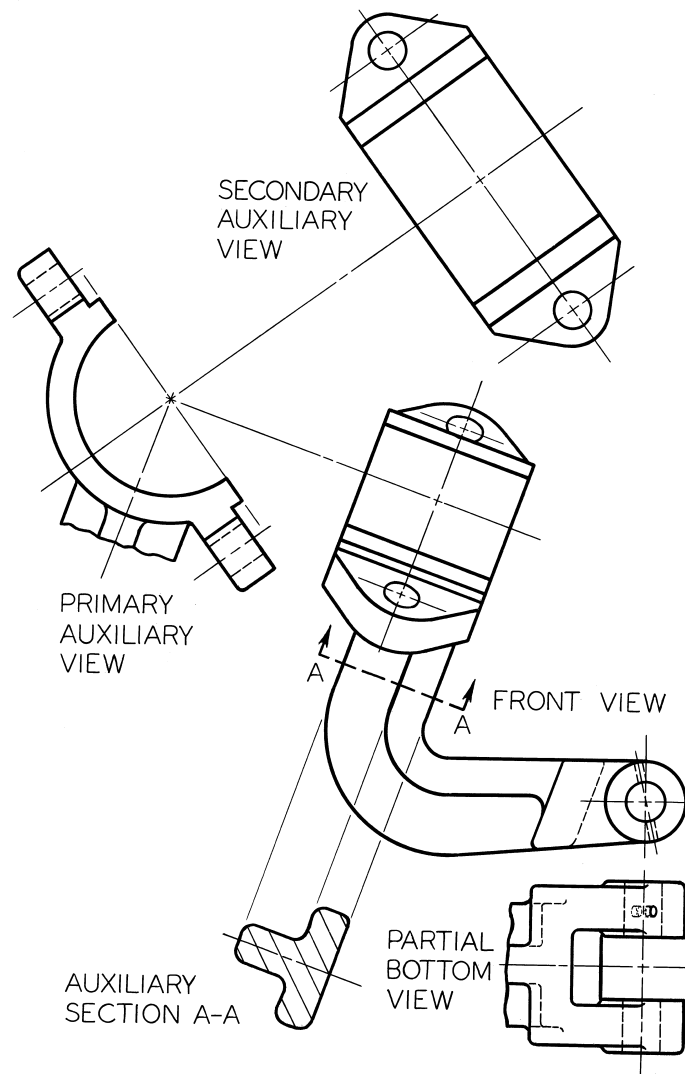


Figure 8-25

Secondary Auxiliary View—Partial Views.

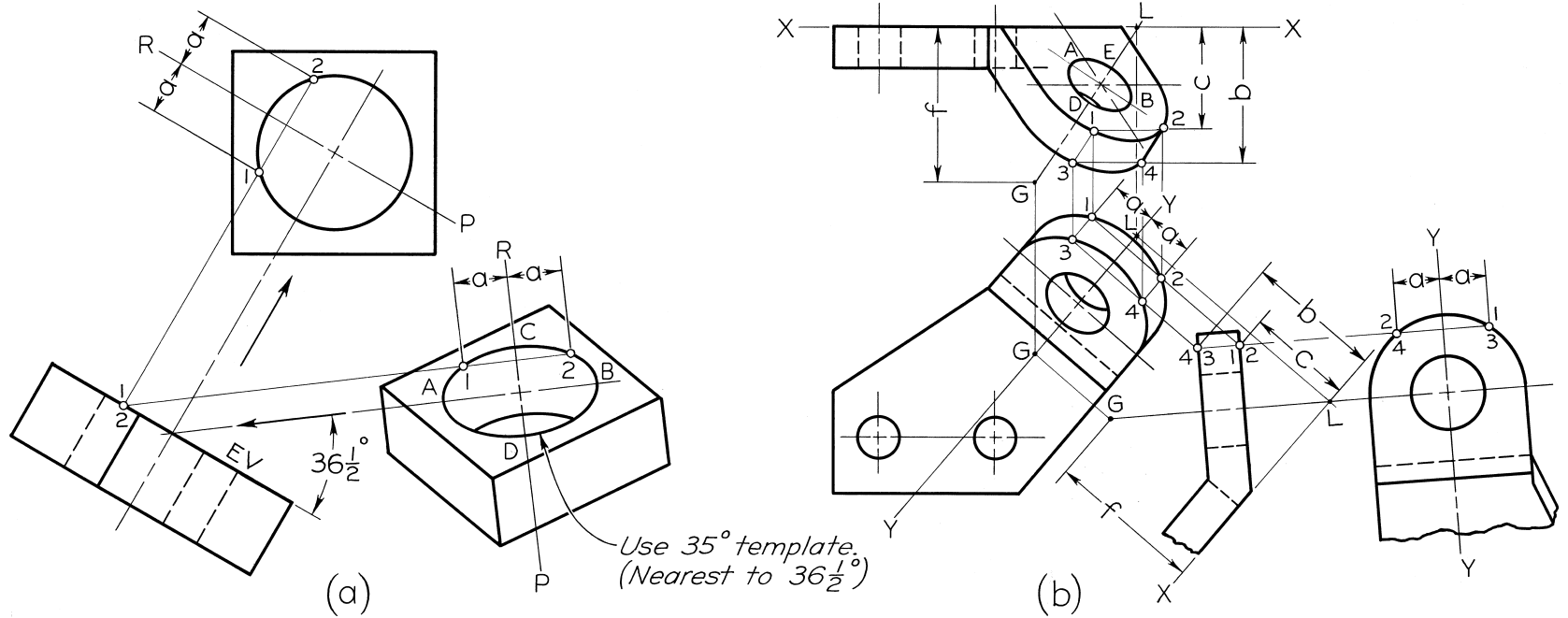


Figure 8-26

Ellipses.

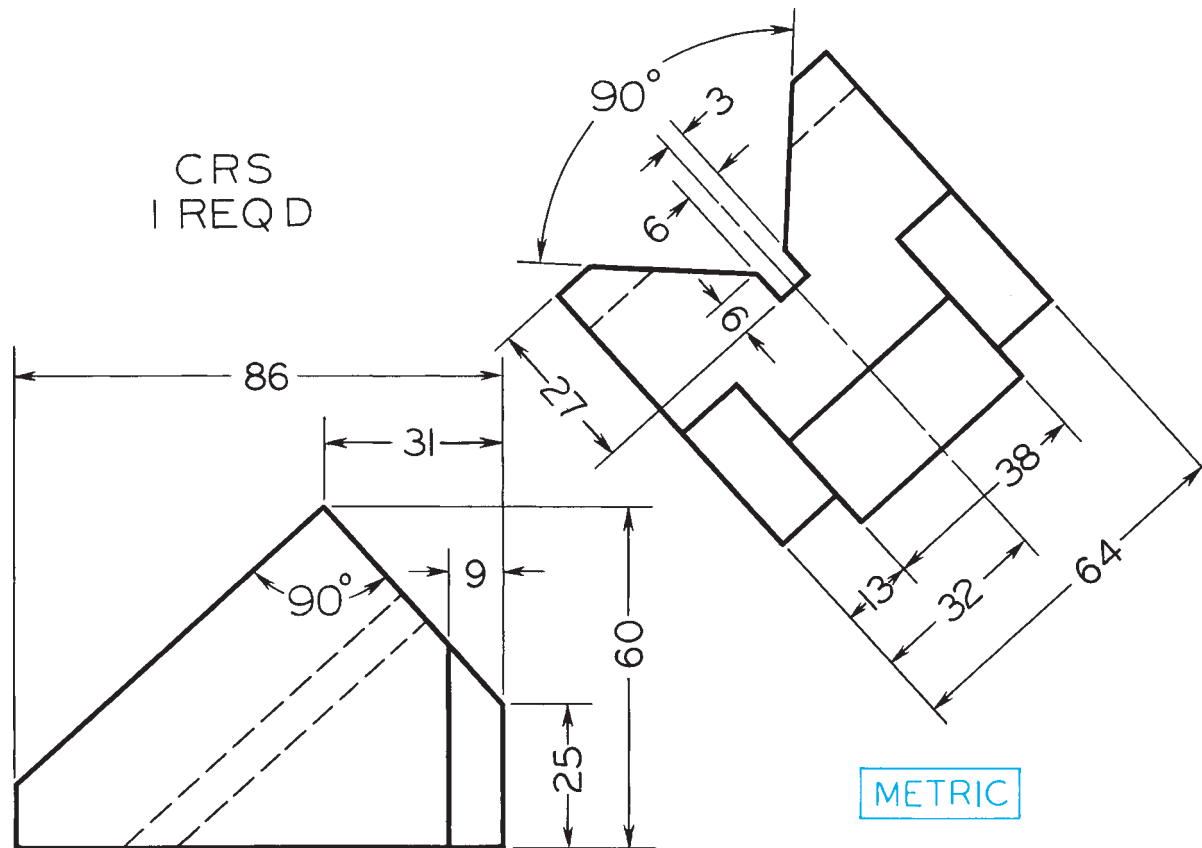


Figure 8-28

V-Block. Given: Front and auxiliary views. Required: Complete front, top, and auxiliary views (Layout A-3 or A4-3 adjusted).

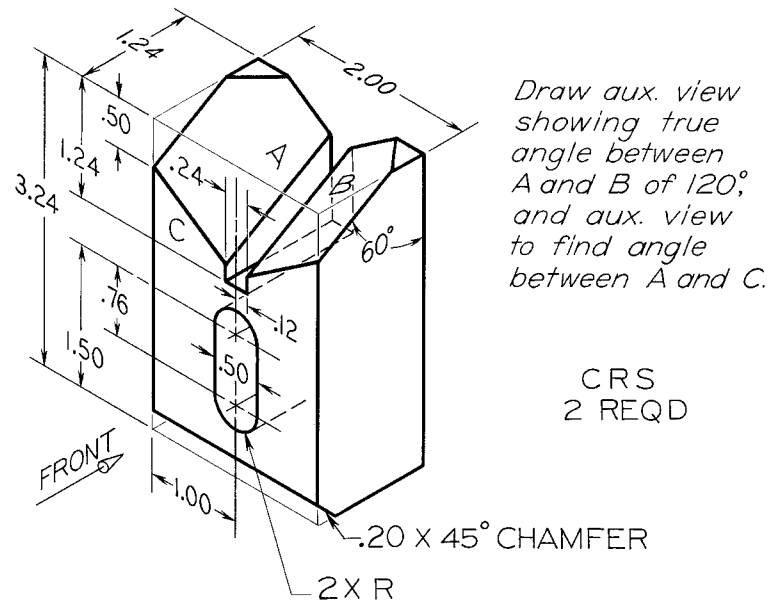


Figure 8-31

Centering Block. Draw complete front, top, and right-side views, plus indicated auxiliary views (Layout B-3 or A3-3).*

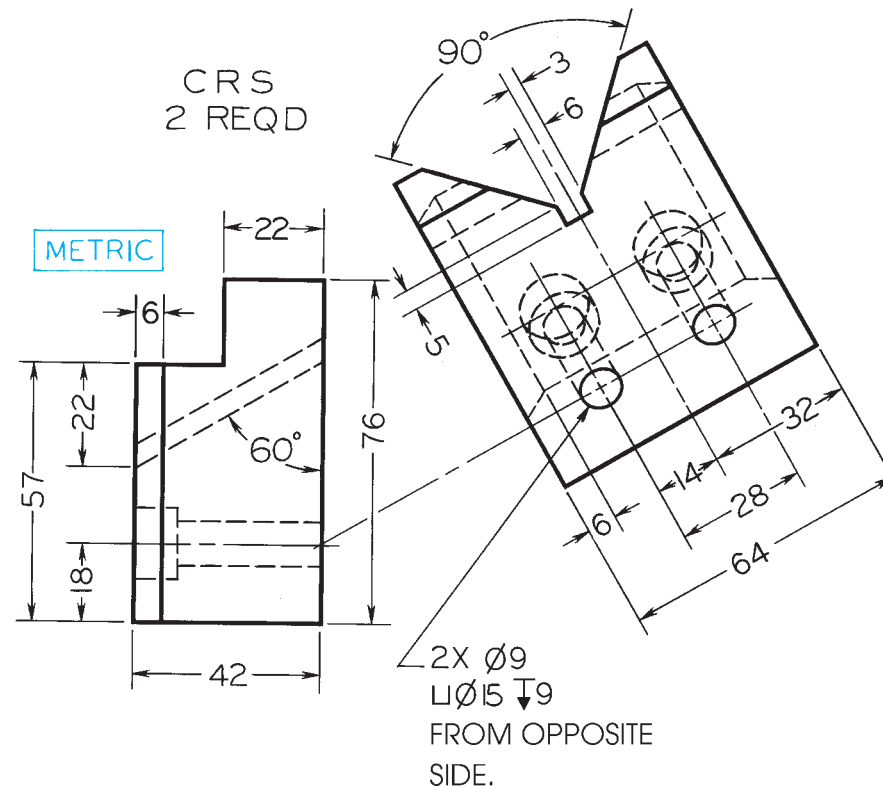


Figure 8-33

Guide Block. Given: Right-side and auxiliary views. Required: Right-side, auxiliary, plus front and top views—all complete (Layout B-3 or A3-3).*

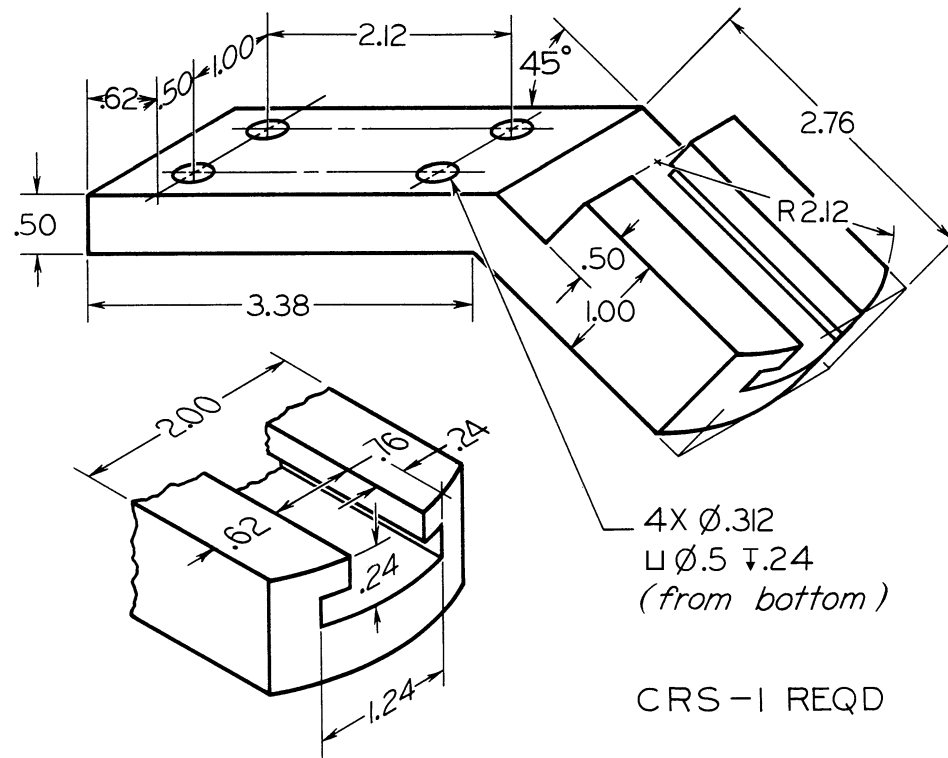


Figure 8-35

Guide Bracket. Draw necessary views or partial views (Layout B-3 or A3-3).*

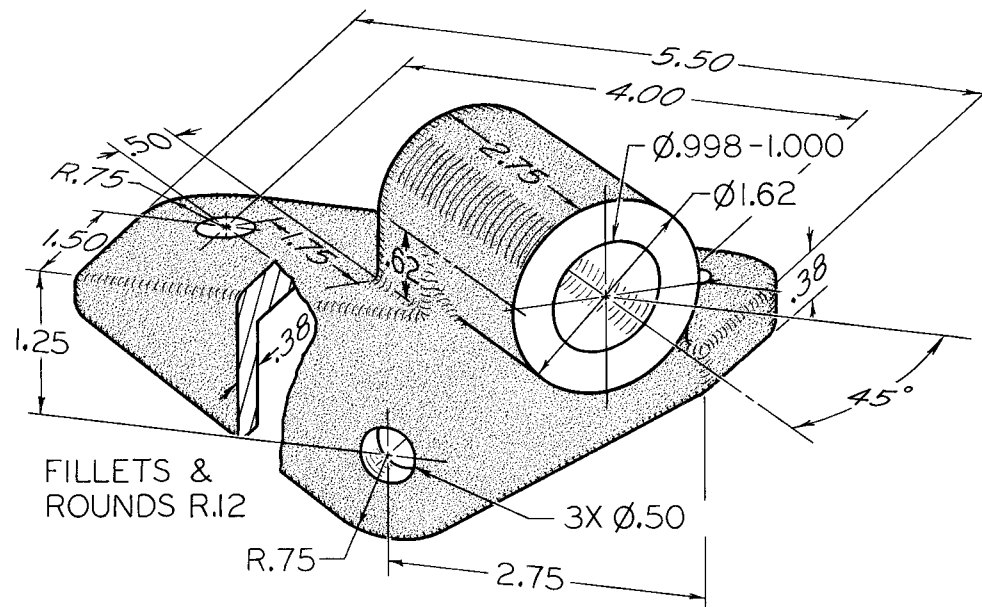


Figure 8-37

Brace Anchor. Draw necessary views, including partial auxiliary view showing true shape of cylindrical portion (Layout B-4 or A3-4 adjusted).*

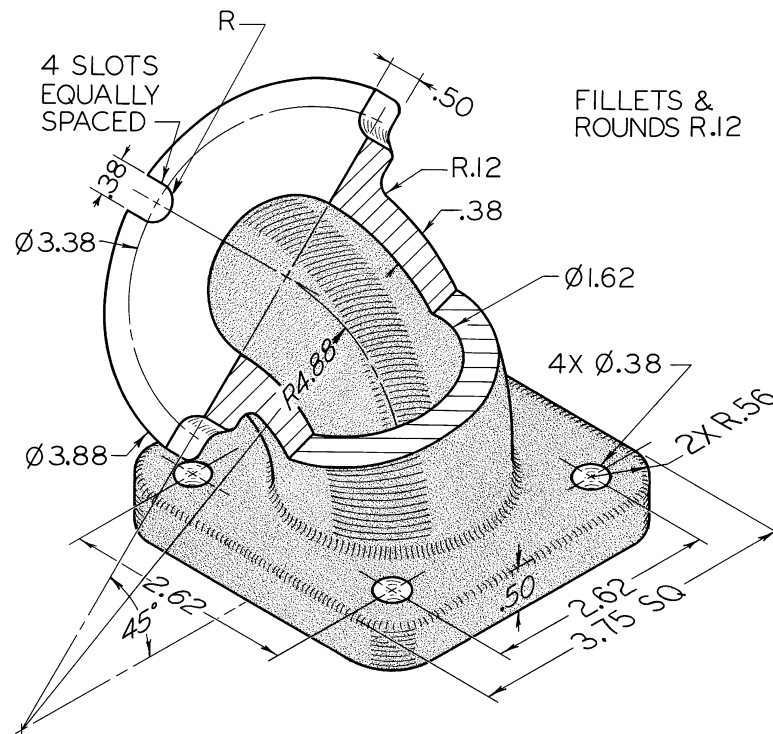


Figure 8-38

45° Elbow. Draw necessary views, including a broken section and two half views of flanges (Layout B-4 or A3-4 adjusted).*

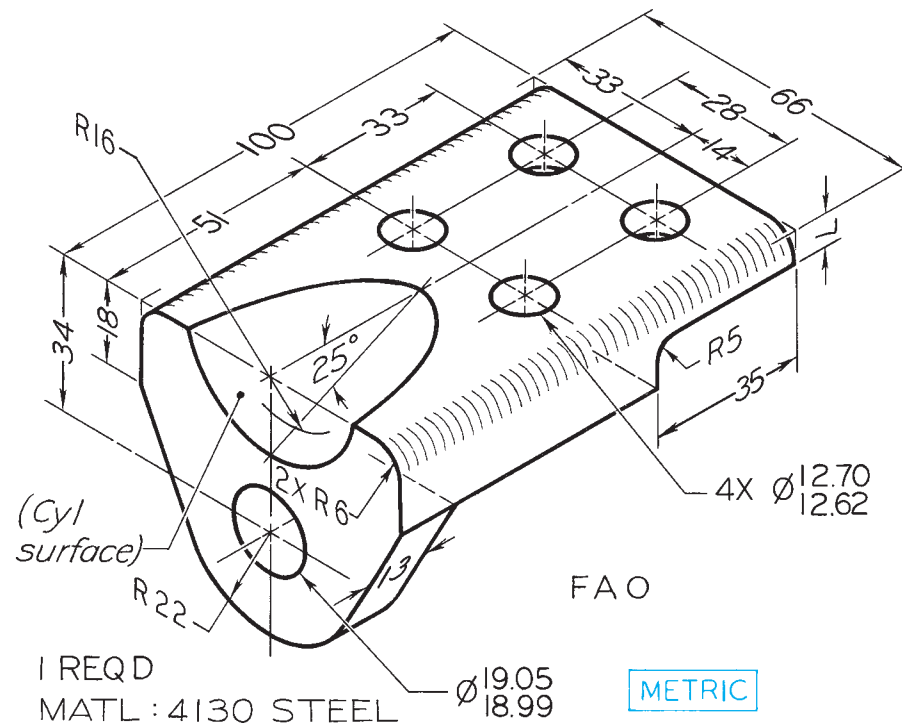


Figure 8-39

Angle Guide. Draw necessary views, including a partial auxiliary view of cylindrical recess (Layout B-4 or A3-4 adjusted).*

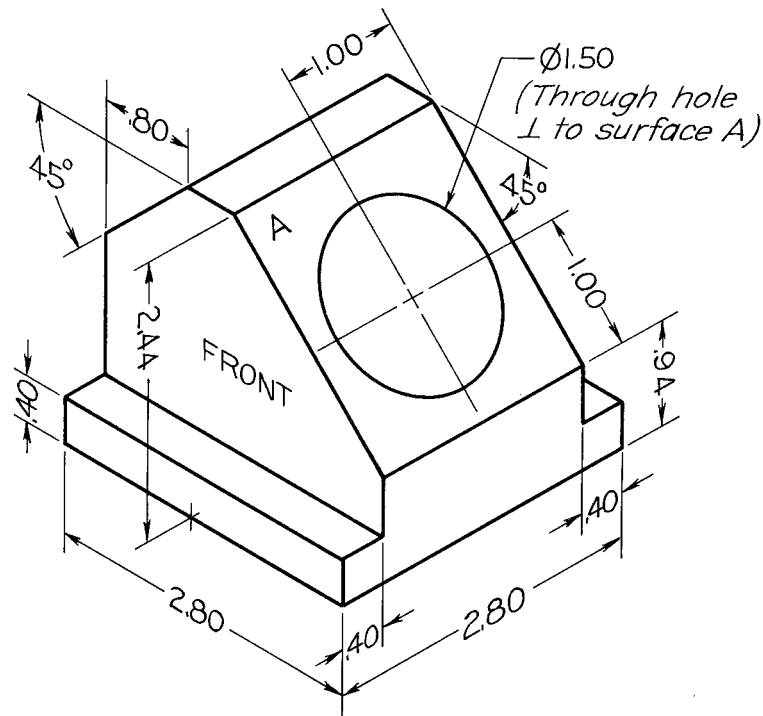


Figure 8-40

Holder Block. Draw front and right-side views (2.80" apart) and complete auxiliary view of entire object showing true shape of surface A and all hidden lines (Layout A-3 or A4-3 adjusted).*

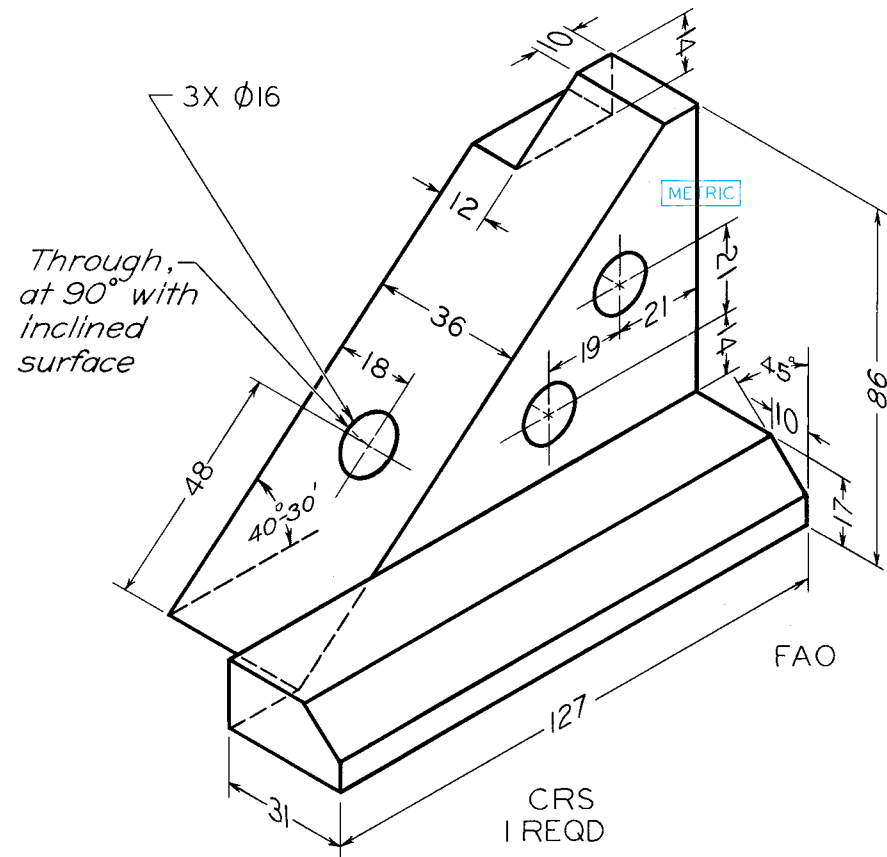


Figure 8-43

Adjuster Block. Draw necessary views, including complete auxiliary view showing true shape of inclined surface (Layout B-4 or A3-4 adjusted).*

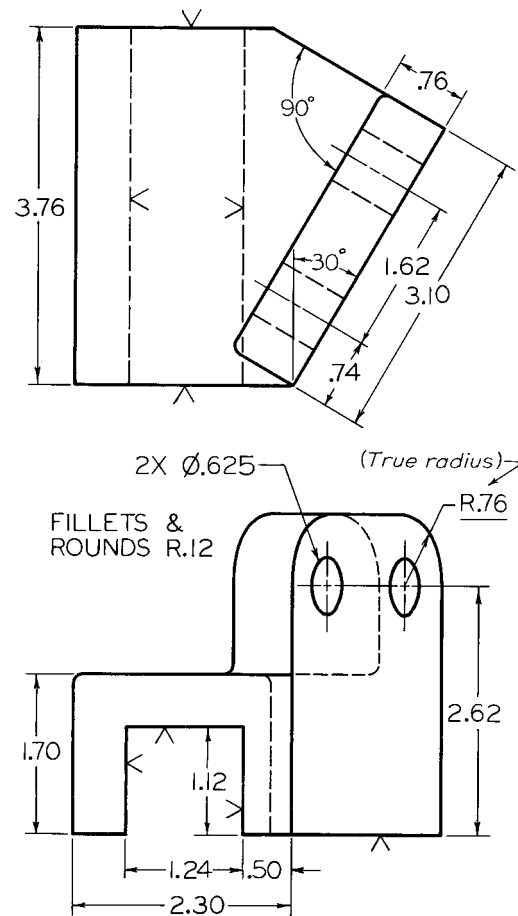


Figure 8-45

Drill Press Bracket. Draw given views and add complete auxiliary view showing true shape of inclined face (Layout B-4 or A3-4 adjusted).*

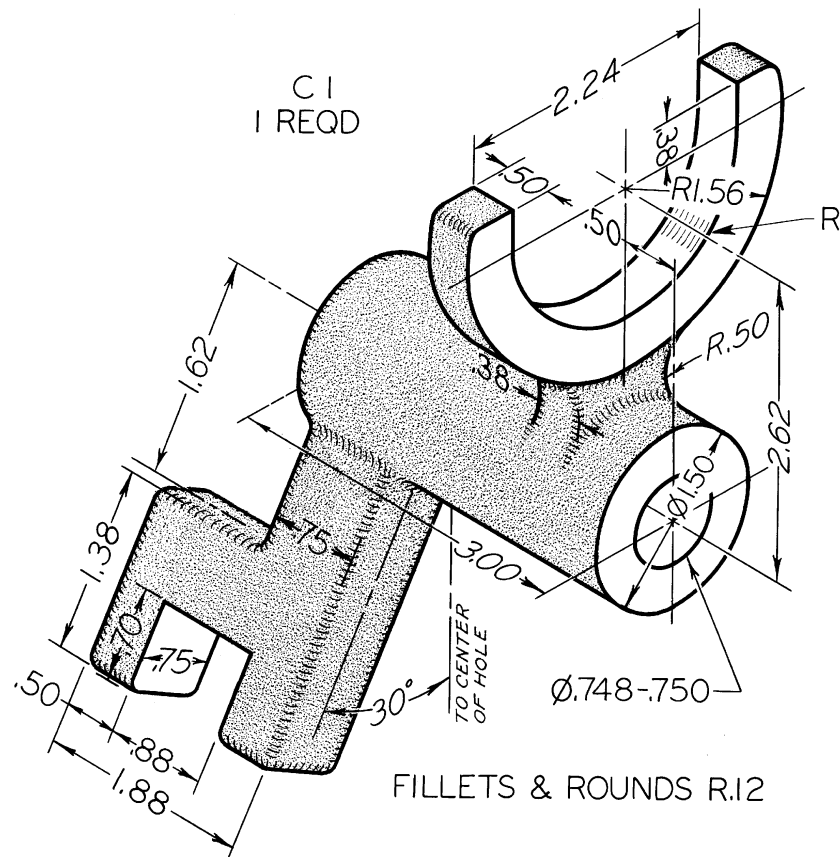


Figure 8-47

Shifter Fork. Draw necessary views, including partial auxiliary view showing true shape of inclined arm (Layout B-4 or A3-4 adjusted).*

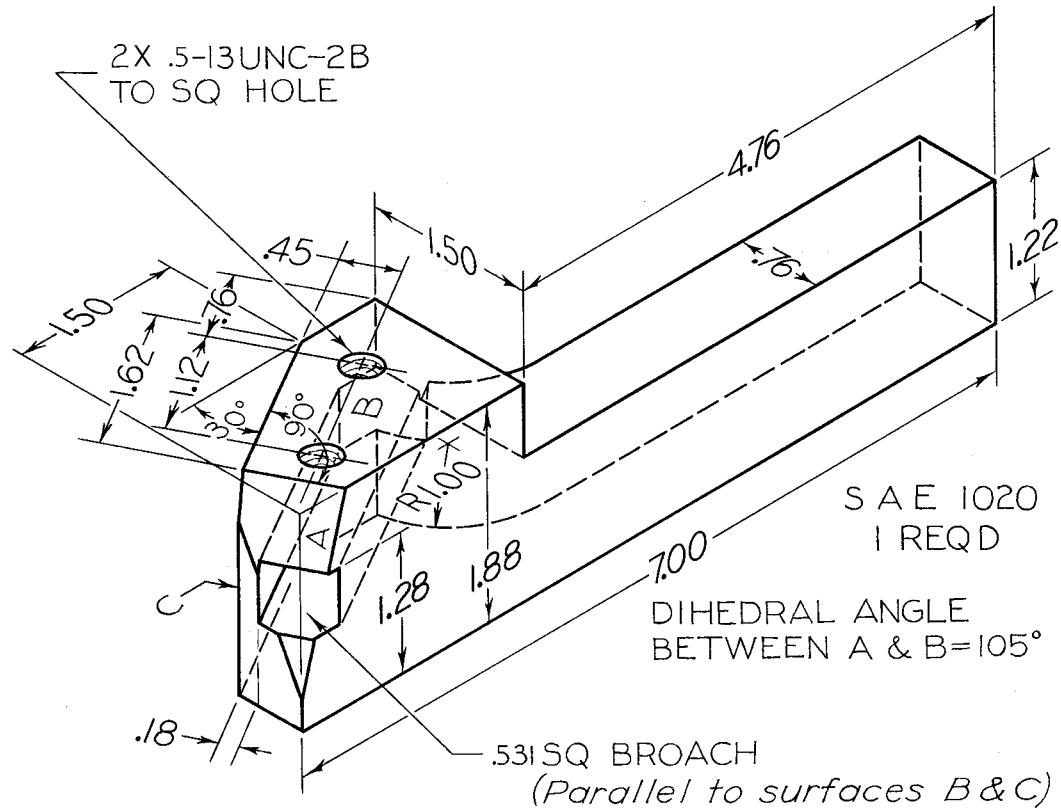


Figure 8-49

RH Tool Holder. Draw necessary views, including partial auxiliary views showing 105° angle and square hole true size. (Layout B-4 or A3-4 adjusted).*

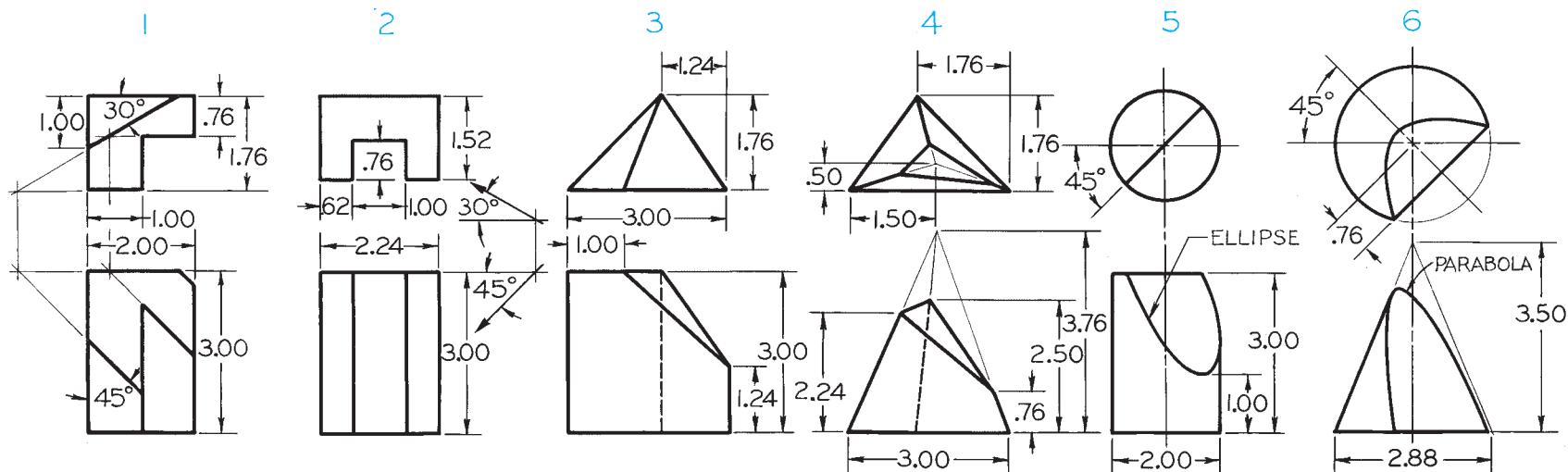


Figure 8-50

Draw secondary auxiliary views, complete, which (except Prob. 2) will show the true sizes of the inclined surfaces. In Prob. 2 draw secondary auxiliary view as seen in direction of arrow (Layout B-3 or A3-3).*

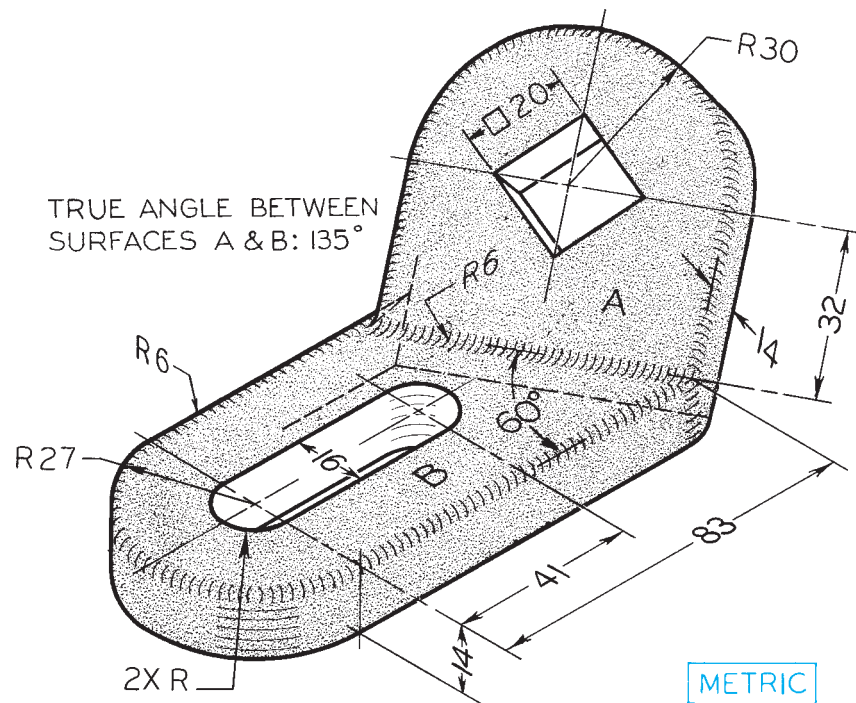


Figure 8-51

Control Bracket. Draw necessary views including primary and secondary auxiliary views so that the latter shows true shape of oblique surface A (Layout B-4 or A3-4 adjusted).*

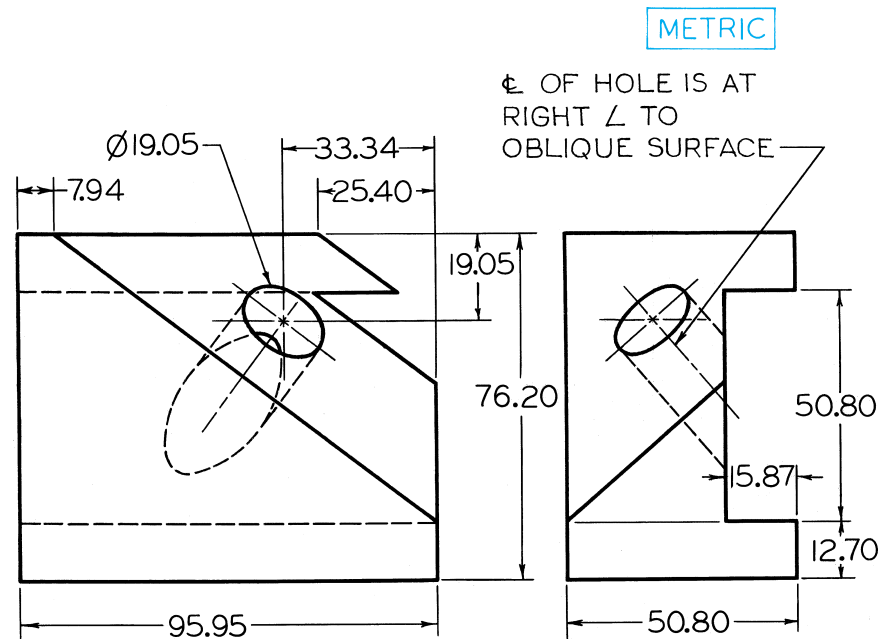


Figure 8-52

Holder Block. Draw given views and primary and secondary auxiliary views so that the latter shows true shape of oblique surface (Layout B-4 or A3-4 adjusted).*

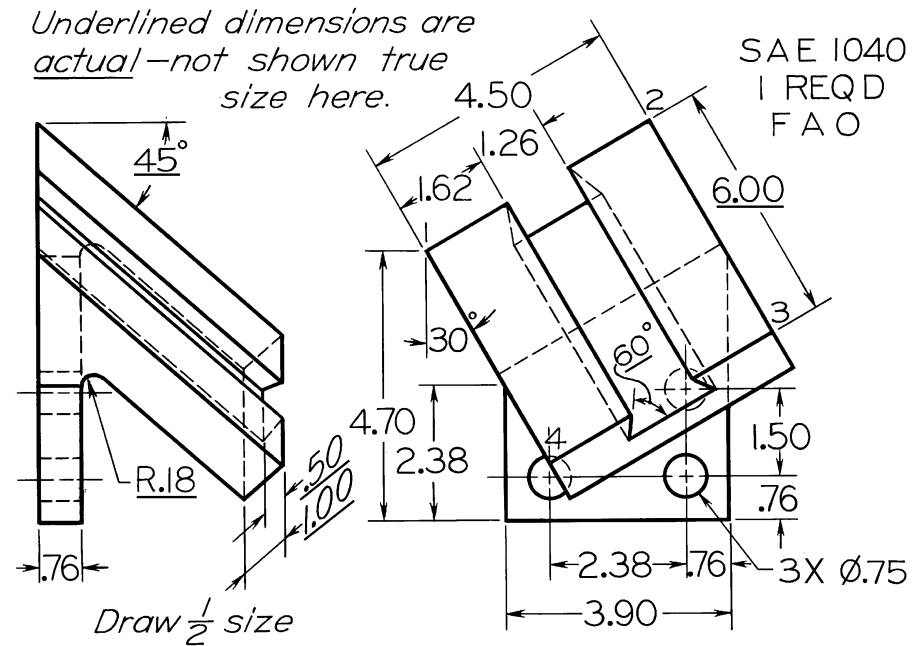
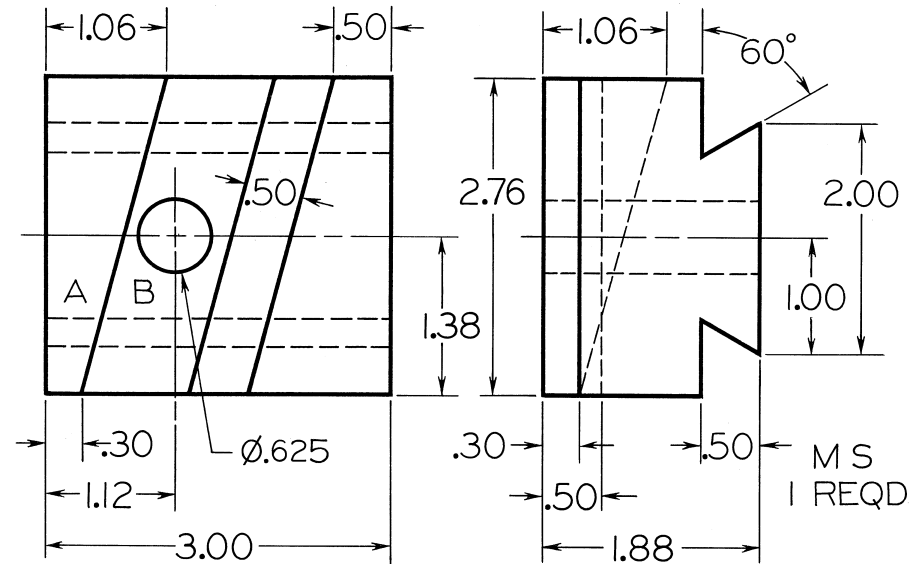


Figure 8-53

Dovetail Slide. Draw complete given views and auxiliary views, including view showing true size of surface 1–2–3–4 (Layout B–4 or A3–4 adjusted).*



Draw primary aux. view showing angle between planes A and B; then secondary auxiliary view showing true size of surface A.

Figure 8-54

Dovetail Guide. Draw given views plus complete auxiliary views as indicated (Layout B-4 or A3-4 adjusted).*

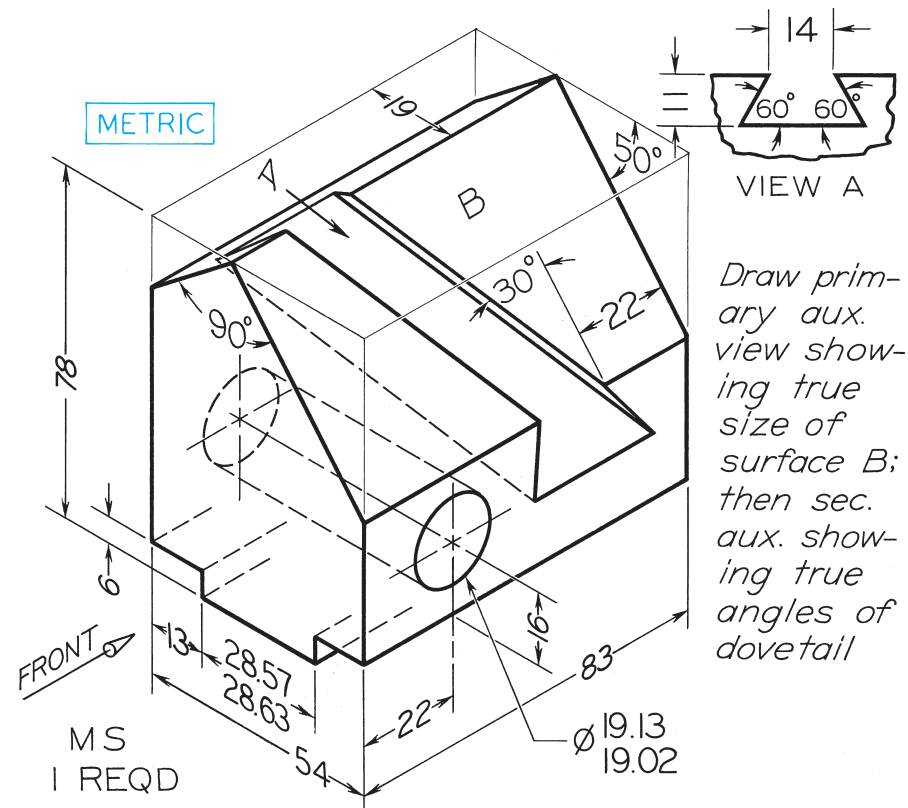


Figure 8-55

Adjustable Stop. Draw complete front and auxiliary views plus partial right-side view. Show all hidden lines (Layout C-4 or A2-4).*

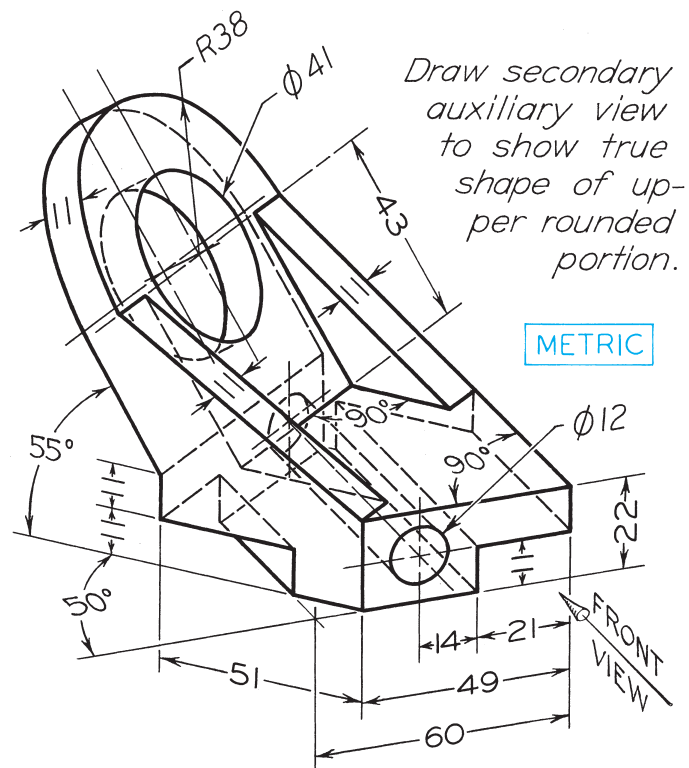


Figure 8-56

Tool Holder. Draw complete front view, and primary and secondary auxiliary views as indicated (Layout B-4 or A3-4 adjusted).*

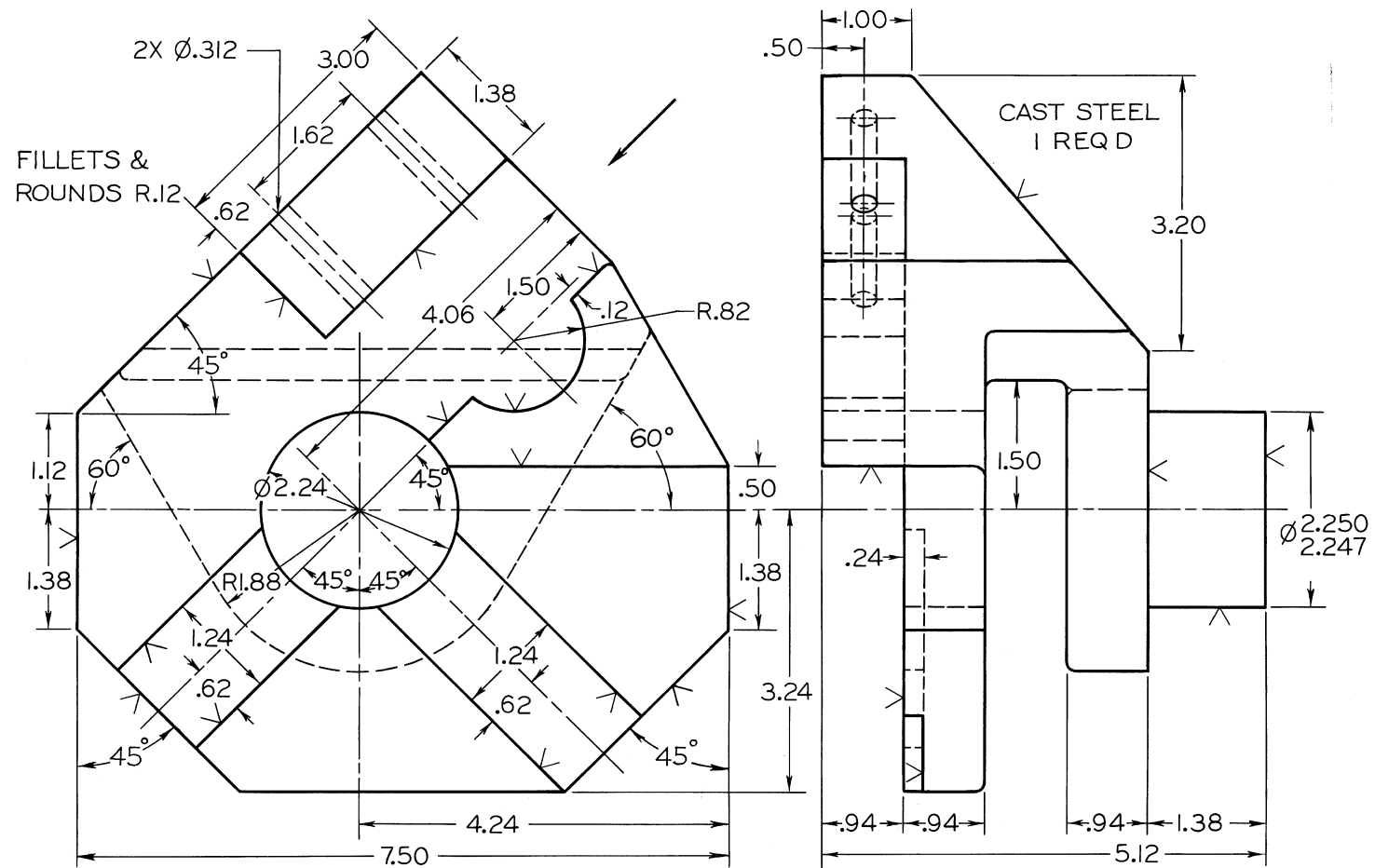


Figure 8-57

Box Tool Holder for Turret Lathe. Given: Front and right-side views. Required: Front and left-side views, and complete auxiliary view as indicated by arrow (Layout C-4 or A2-4).*

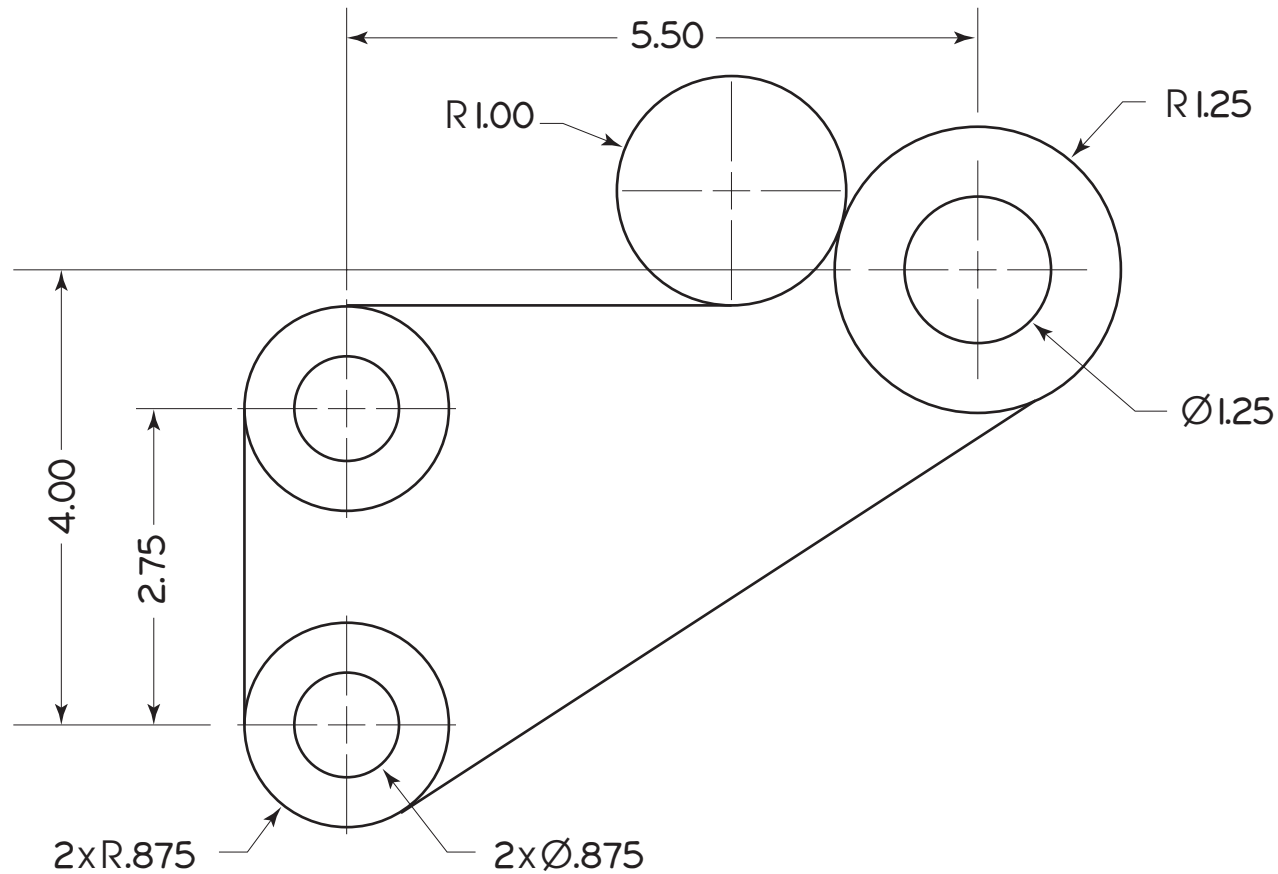


Figure 8-59

Print Roller. Given: Right-side view. Design your own front and auxiliary view (Use Layout A-3 or A4-3 adjusted). If assigned, use CAD to create a partial auxiliary view.

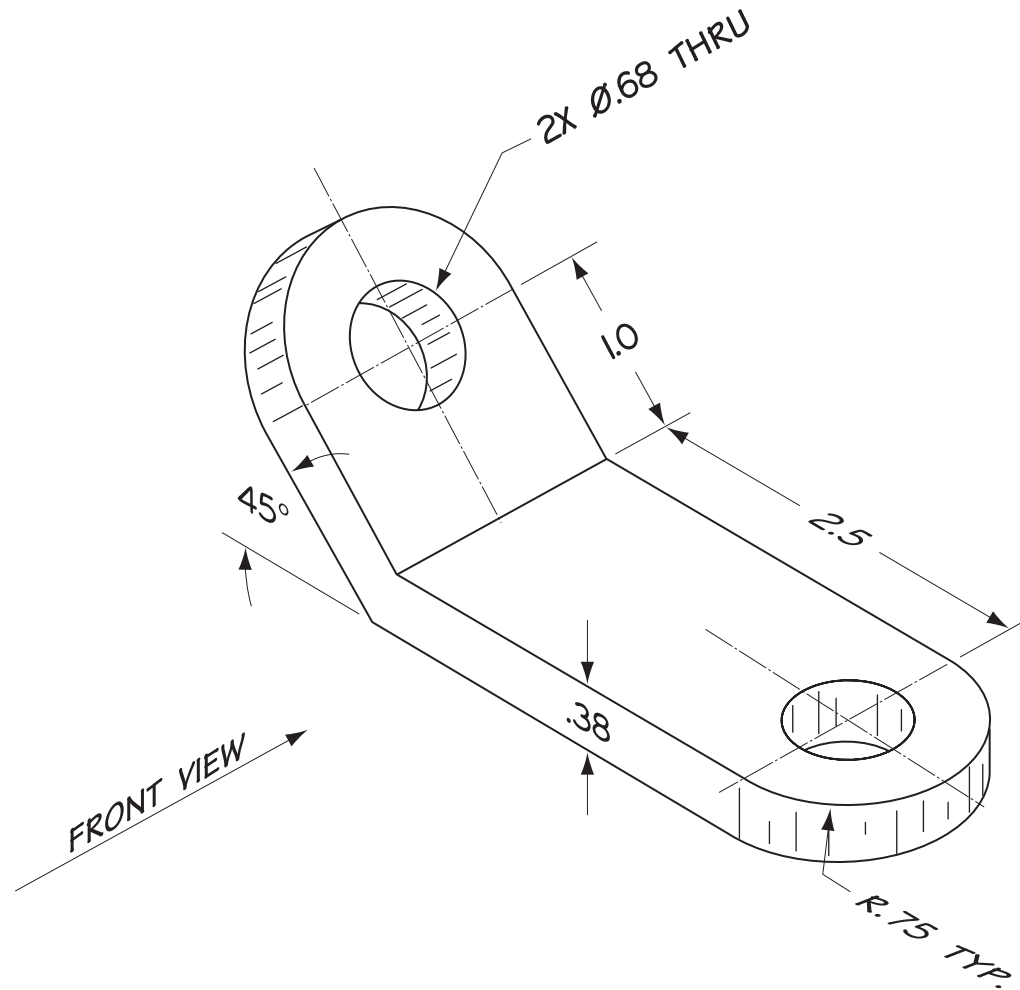


Figure 8-60

Clamp. Draw all required views. Include at least one auxiliary view (Layout A-3 or A4-3 adjusted).*

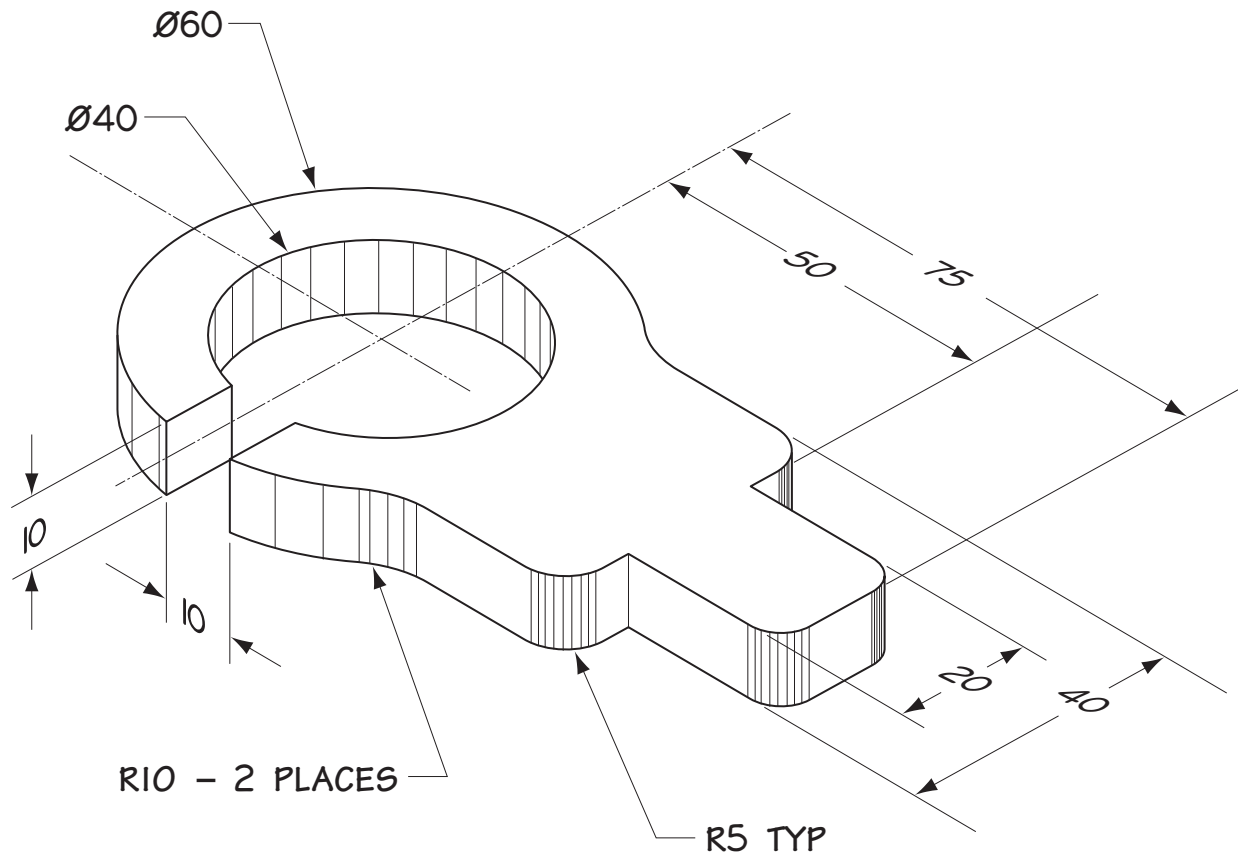


Figure 8-61

Plastic Spacer. Draw all necessary views. Make at least one auxiliary view (Layout A-3 or A4-3 adjusted).*

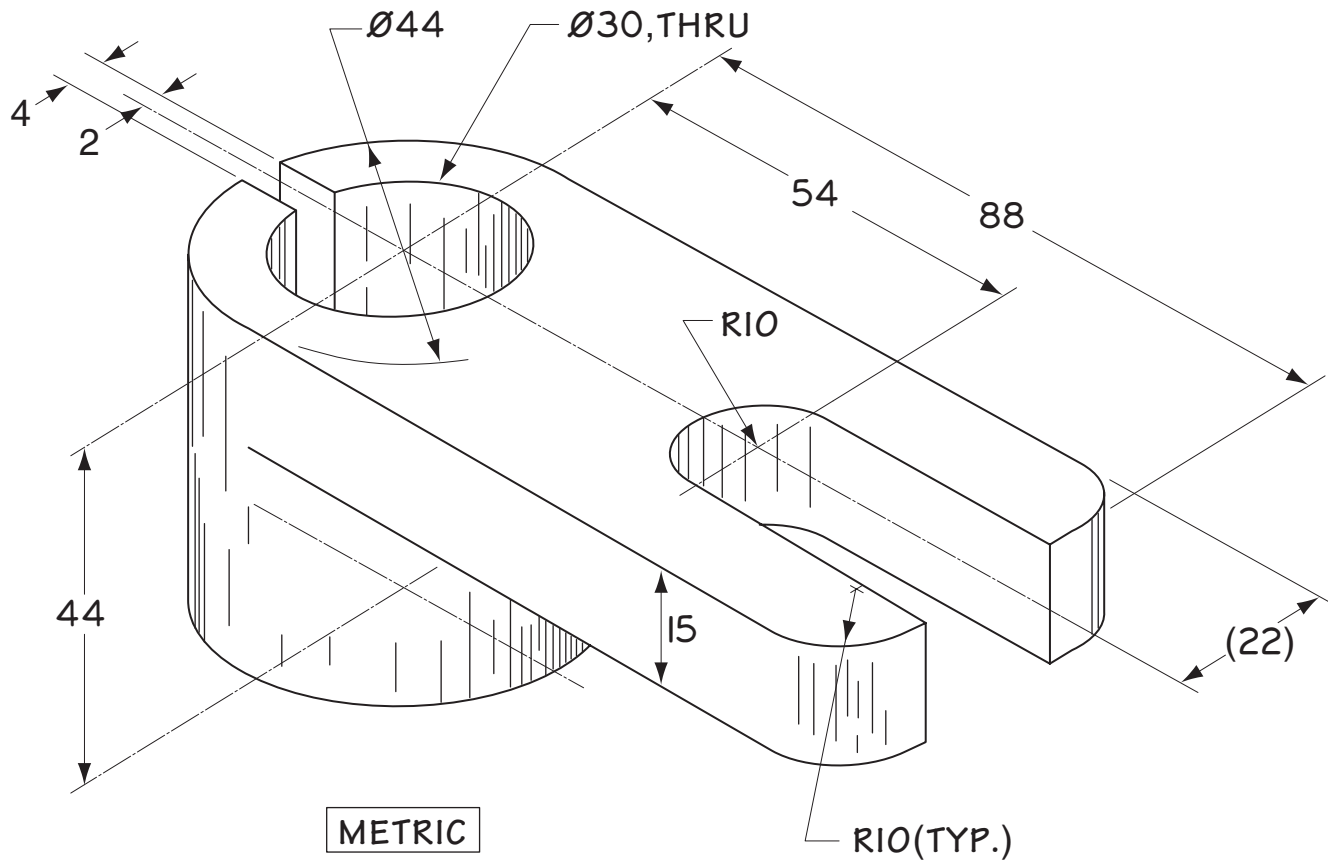


Figure 8-62

Plastic Spacer. Draw all necessary views. Include at least one auxiliary view (Layout A-3 or A4-3 adjusted).* 8.63 Plastic Slide. Draw all required views. Include at least one

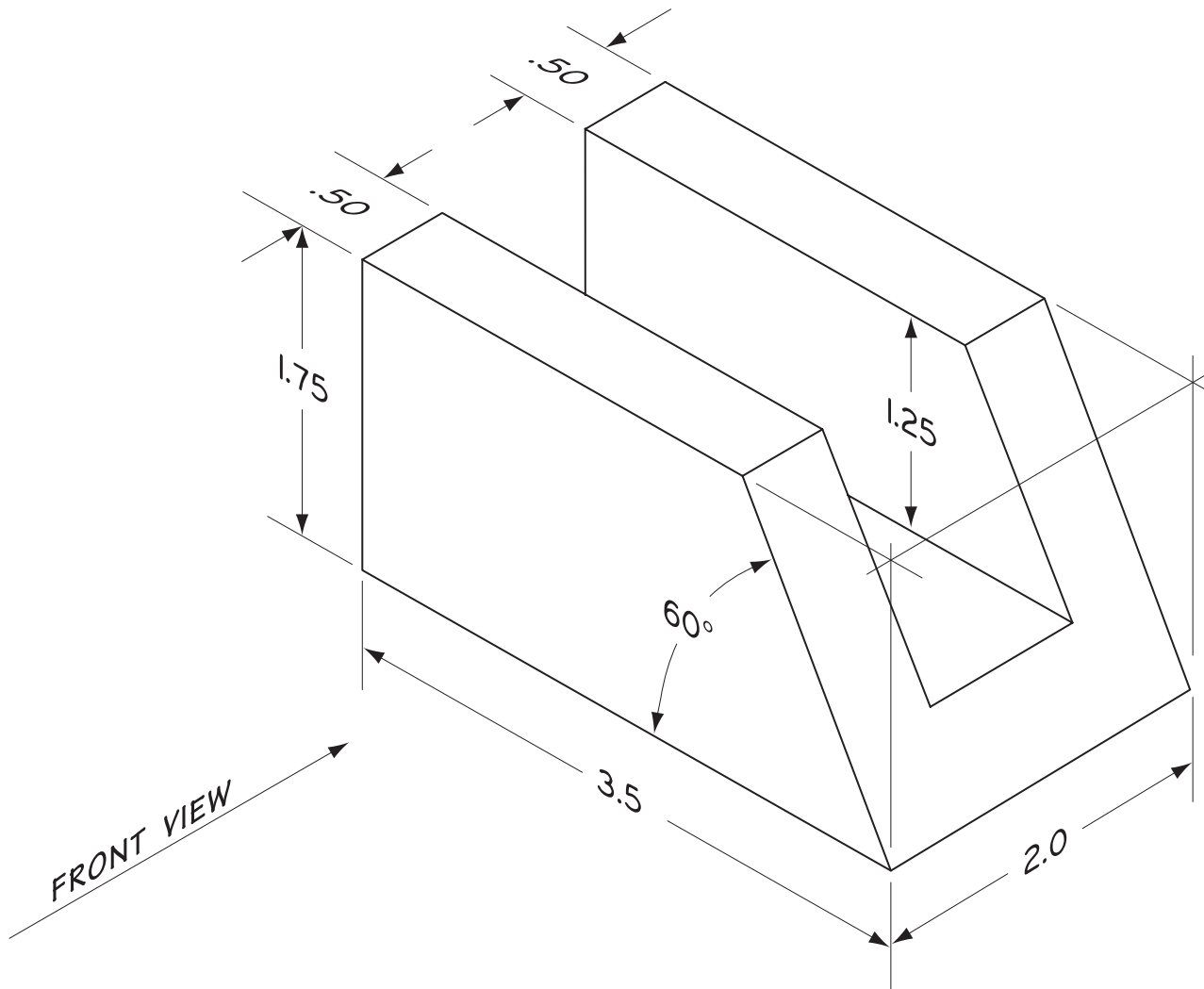


Figure 8-63

Plastic Slide. Draw all required views. Include at least one auxiliary view (Layout A-3 or A4-3 adjusted).*

