1.4 Sketching Intersections

Objective: Name simple figures and their intersections.

Figures <u>intersect</u> fi they have any points in common.

The <u>intersection</u> of two or more figures is the point or points that the figures have in common.

Postulate 3: If two lines intersect, then their intersection is a point.

Postulate 4: If two planes intersect, then their intersection is a line.

Example 1: Pg. 23 bottom pictures.

   A. Name the intersection of $\overleftrightarrow{PS}$ and $\overleftrightarrow{QR}$.

   B. Name the intersection of $\overleftrightarrow{TV}$ and $\overleftrightarrow{QU}$.

   C. Name the intersection of $\overleftrightarrow{PS}$ and $\overleftrightarrow{UV}$.

   D. Name the intersection of planes X and Y.

   E. Name the intersection of planes Y and Z.

   F. Name the intersection of planes Z and X.