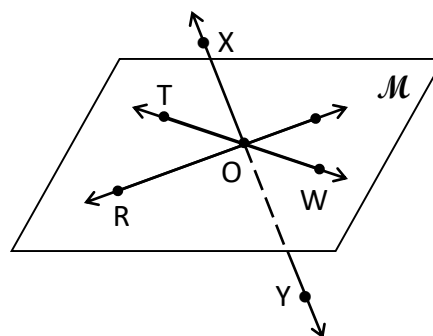**Name:** _____

Points, Lines, and Planes

Determine whether each statement is true or false. Justify.

1) $\overleftrightarrow{XY}$ intersects plane M at point O.

2) Plane M intersects $\overleftrightarrow{XY}$ in more than one point.

3) T, O, and R are collinear.

4) X, O, and Y are collinear.

5) R, S, O, and W are coplanar

6) R, S, T, and X are coplanar.

7) R, X, O, and Y are coplanar.

8) $\overrightarrow{RS}$ is in plane M.

9) Plane M contains $\overleftrightarrow{XY}$ and $\overrightarrow{RS}$

Draw and Label.

10) Four coplanar points such that three, but not four of them are collinear.

11) Four coplanar points.

12) Two intersecting lines.

13) Two intersecting planes.