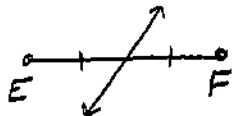


1. Sketch a diagram: straight angle ABC is bisected by \overline{BQ}



2. Sketch a diagram: \overline{EF} is bisected by line l .



3. Decide whether the statement "Two planes can intersect in exactly one point R " is a true or false statement. If false, give a reason.

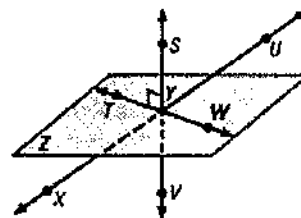
The intersection of two planes is a line

4. Decide whether the statement "Through points X and Y are two different lines \overline{XY} and \overline{YX} " is a true or false statement. If false, give a reason.

Through any two points is exactly one line.

Use the diagram to determine if the statement is true or false.

5. $\overline{ST} \perp \text{plane } Z$ False
6. \overline{XU} intersects plane Z at point Y . True
7. \overline{TW} lies in plane Z . True
8. $\angle SYT$ and $\angle WYS$ are vertical angles. False
9. $\angle SYT$ and $\angle TYV$ are complementary angles. False
10. $\angle TYU$ and $\angle UYW$ are a linear pair. True
11. $\angle UYV$ is acute False



12. Which of the following statements cannot be assumed from the diagram?

- (A) $A, B,$ and C are coplanar.
- (B) $\overline{CD} \perp \text{plane } P$
- (C) $A, F,$ and B are collinear.
- (D) Plane M intersects plane P in \overline{FH} .

