Using the appropriate labels sketch the following relationships.

1. \( \overline{CD} \) intersects \( \overline{GH} \) at \( K \).
2. Line \( m \) is not on plane \( \mathcal{R} \).
3. Points \( S, T, U, \) and \( V \) are collinear.

4. Line \( k \) does not intersect \( \overline{YZ} \).
5. \( \overline{ML} \) is on plane \( \mathcal{Q} \).
6. Plane \( ABCD \) intersects plane \( \mathcal{R} \) at line \( j \).

Using appropriate notation describe the following sketches.

7.

8.

9.

Using the figure to the right decide if the following statements are true or false.

10. \( \overline{AB} \) is in plane \( \mathcal{M} \).
11. \( \overline{AB} \) is on plane \( \mathcal{M} \).
12. Plane \( \mathcal{M} \) contains \( \overline{AB} \).
13. \( \overline{AB} \) intersects plane \( \mathcal{M} \).
Using the figure to the right answer the following questions.

14. How many planes make up the figure?
15. Name four of the planes that make up the object.
16. Are \( A, B, C, \) and \( D \) coplanar?
17. Are \( A, D, H, \) and \( G \) coplanar?
18. Are \( E, F, G, \) and \( B \) coplanar?
19. Name two planes that intersect at \( GB \).
20. What is the intersection of plane \( FAD \) and \( TEF \)?