

## Using the appropriate labels sketch the following relationships.

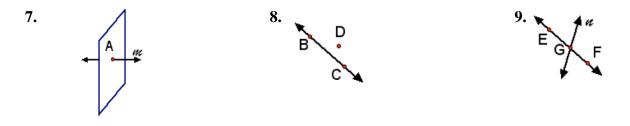
**1.**  $\overrightarrow{CD}$  intersects  $\overrightarrow{GH}$  at *K*. **2.** Line *m* is not on plane  $\mathcal{R}$ . **3.** Points S, T, U, and V are collinear.

**4.** Line *h* does not intersect  $\overrightarrow{YZ}$ .

**5.**  $\overrightarrow{ML}$  is on plane  $\mathbb{Q}$ .

6. Plane *ABCD* intersects plane  $\Re$  at line *j*.

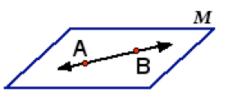
Using appropriate notation describe the following sketches.



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

- 10.  $\overrightarrow{AB}$  is in plane  $\mathfrak{M}$ .
- **11.**  $\overrightarrow{AB}$  is on plane  $\mathfrak{M}$ .
- **12.** Plane  $\mathfrak{M}$  contains  $\overline{AB}$ .
- **13.**  $\overrightarrow{AB}$  intersects plane  $\mathfrak{M}$ .







## 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  $\overleftarrow{GB}$ .
- **20.** What is the intersection of plane *FAD* and *TEF*?

