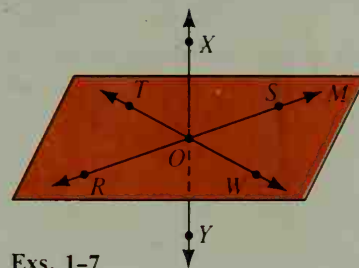


Classroom Exercises

Classify each statement as true or false.

- \overleftrightarrow{XY} intersects plane M at point O .
- Plane M intersects \overleftrightarrow{XY} in more than one point.
- T , O , and R are collinear.
- X , O , and Y are collinear.
- R , O , S , and W are coplanar.
- R , S , T , and X are coplanar.
- R , X , O , and Y are coplanar.
- Does a plane have edges?
- Can a given point be in two lines? in ten lines?
- Can a given line be in two planes? in ten planes?



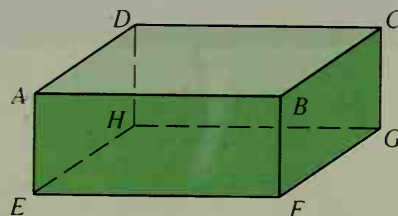
Exs. 1-7

Name a fourth point that is in the same plane as the given points.

- | | | |
|---------------|---------------|---------------|
| 11. A, B, C | 12. E, F, H | 13. D, C, H |
| 14. A, D, E | 15. B, E, F | 16. B, G, C |

The plane that contains the top of the box can be called plane $ABCD$.

- Are there any points in \overleftrightarrow{CG} besides C and G ?
- Are there more than four points in plane $ABCD$?
- Name the intersection of planes $ABFE$ and $BCGF$.
- Name two planes that do not intersect.

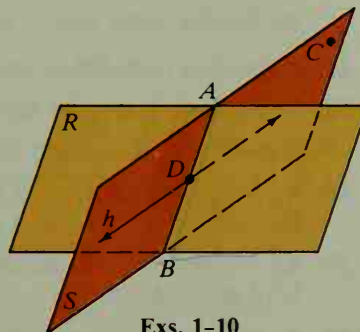


Exs. 11-20

Written Exercises

Classify each statement as true or false.

- A**
- \overleftrightarrow{AB} is in plane R .
 - S contains \overleftrightarrow{AB} .
 - R and S contain D .
 - D is on line h .
 - h is in S .
 - h is in R .
 - Plane R intersects plane S in \overleftrightarrow{AB} .
 - Point C is in R and S .
 - A , B , and C are collinear.
 - A , B , C , and D are coplanar.



Exs. 1-10