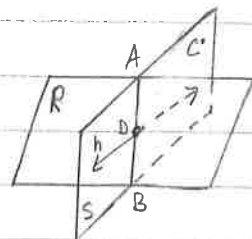


A #7 p. 7-9 WE # 1-18, 21-28

Key

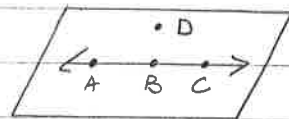
WE (Written Exercises)

1. \overleftrightarrow{AB} is in plane R. True
2. S contains \overleftrightarrow{AB} . True
3. R and S contain D. True
4. D is on line h. True
5. h is in S. True
6. h is in R. False (h is in S.)
7. Plane R intersects plane S in \overleftrightarrow{AB} . True
8. Point C is in R and S. False (Point C is in Plane S.)
9. A, B, and C are collinear. False (A, B, and C are coplanar.)
10. A, B, C, and D are coplanar. True

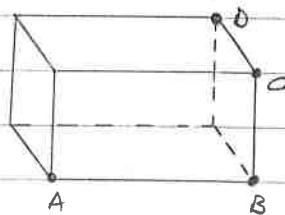


Exs. 1-10

11. Make a sketch showing 4 coplanar points such that 3, but not 4, of them are collinear.
(A, B, C are collinear. D is not on \overleftrightarrow{AC} .)



12. Make a sketch showing four points that are not coplanar.
(A, B, and C are coplanar. B, C, and D are coplanar.)
(A, B, C, and D are not coplanar.)



13. Name 5 planes. VRW, VRS, VST, VTW, RST

14. Of the 5 planes, are there any that do not intersect? No

15. Name 3 lines that intersect at point R. \overleftrightarrow{RW} , \overleftrightarrow{RV} , \overleftrightarrow{RS}

16. Name 2 planes that intersect in \overleftrightarrow{ST} . VST, RST

17. Name 3 planes that intersect at point S. VRS, VST, RST

18. Name a line and a plane that intersect in a point. \overleftrightarrow{VS} , RST

21. Name 2 planes that intersect in \overleftrightarrow{FG} . RFG and BFG

22. Name 3 lines that intersect at point E. \overleftrightarrow{EA} , \overleftrightarrow{ER} , \overleftrightarrow{EH}

23. Name 3 planes that intersect at point B. ABF, ABC, FBC

24. a. Are A, D, and C collinear? No b. Are points A, D, and C coplanar? Yes

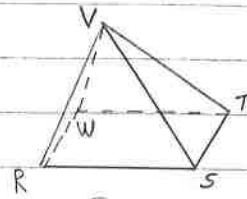
25. a. Are points R, S, G, and F coplanar? Yes b. Are points R, S, G, and C coplanar? No

26. a. Name 2 planes that do not intersect. ABF and DCG b. EAD and FBC

27. Can two horizontal planes intersect? No (Horizontal planes are always parallel.)

28. a. Can two vertical planes intersect? Yes (Walls in a room)

- b. Does a line in a vertical plane have to be vertical? No $\overleftrightarrow{\hspace{1cm}}$



Exs. 13-18

there are many possible answers.

