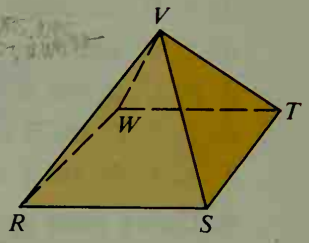
11. Make a sketch showing four coplanar points such that three, but not four, of them are collinear.

12. Make a sketch showing four points that are not coplanar.

A plane can be named by three or more noncollinear points it contains. In Chapter 12 you will study *pyramids* like the one shown at the right below.



Exs. 13–18

13. Name five planes that contain sides of the pyramid shown.

14. Of the five planes containing sides of the pyramid, are there any that do not intersect?

15. Name three lines that intersect at point R.

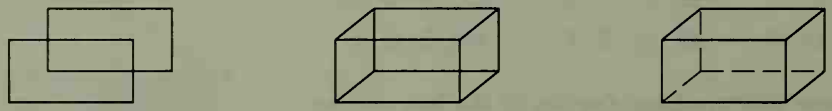
16. Name two planes that intersect in $\overleftrightarrow{ST}$.

17. Name three planes that intersect at point S.

18. Name a line and a plane that intersect in a point.

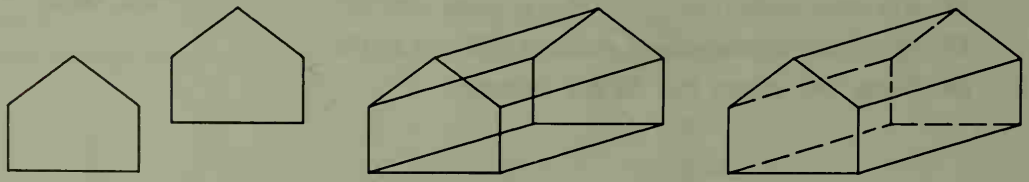
Follow the steps shown to draw the figure named.

19. a rectangular solid or box



Step 1 *Step 2* *Step 3*

20. a barn



Step 1 *Step 2* *Step 3*

Note: After drawing more figures in space, you will probably be able to go directly from Step 1 to Step 3.

21. Name two planes that intersect in $\overleftrightarrow{FG}$.

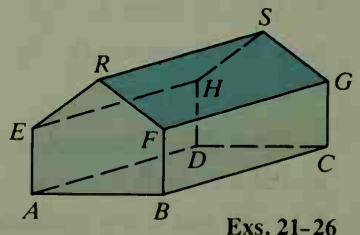
22. Name three lines that intersect at point E.

23. Name three planes that intersect at point B.

24. a. Are points A, D, and C collinear?
b. Are points A, D, and C coplanar?

25. a. Are points R, S, G, and F coplanar?
b. Are points R, S, G, and C coplanar?

26. a. Name two planes that do not intersect.
b. Name two other planes that do not intersect.



Exs. 21–26