Name_____
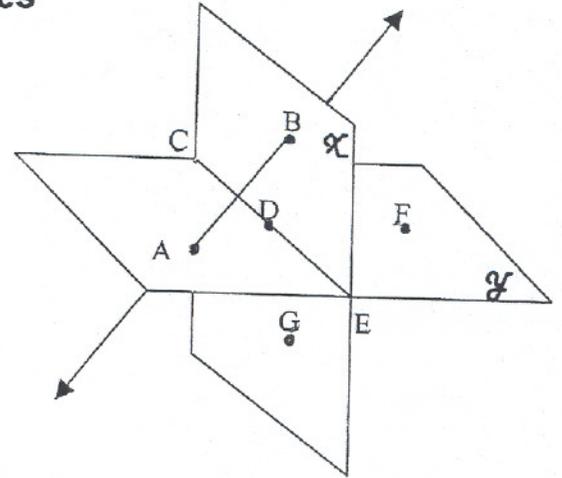
Intersecting Planes and Lines

Use the diagram to the right to answer the following. Refer to
your textbook for definitions of words that you do not know.

1. Name five points in Plane X. _____
2. Name five points in Plane Y._____
3. Name two points that are collinear._____
4. Name two points that are not collinear._____
5. Name three collinear points._____
6. Name three noncollinear points._____
7. Name the line three different ways that passes through C and E._____
8. Name three coplanar points._____
9. Name three noncoplanar points._____
10. Name four noncoplanar ponts._____
11. Can coplanar points be collinear?_____Must they be?_____
12. The intersection of $\overleftrightarrow{AD}$ and $\overleftrightarrow{CD}$ is _____.
13. When two lines intersect, they intersect at a _____.
14. Must two lines intersect? What are the other possibilities?_____.
15. Name a pair of skew lines._____
16. Name a pair of parallel lines._____
17. Name three lines in Plane Y._____
18. How many different planes could contain Points B, C, and G?_____
19. How many different planes could contain Points C, D, and E?_____
20. The intersection of Plane X and Plane Y is _____.
21. If two planes intersect, their intersection is a _____.
22. The intersection of $\overleftrightarrow{AB}$ and Plane X is _____.
23. If a line intersects a plane, their intersection is a _____.
24. The intersection of $\overleftrightarrow{AB}$ and Plane Y is _____.
25. The intersection of $\overleftrightarrow{AD}$ and Plane Y is _____.
26. When a line lies in a plane, the intersection is _____.

C

● F

● D

A
●

E

𝒴

C

B ●

D

G ●

E

𝒳