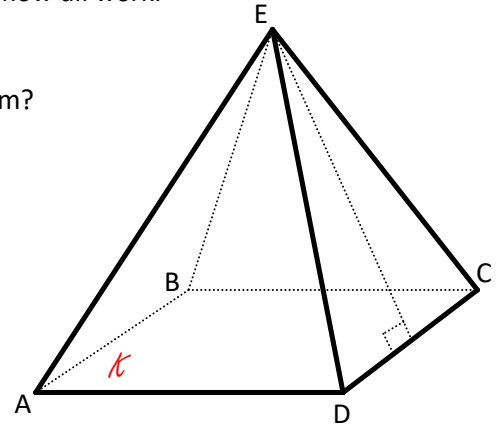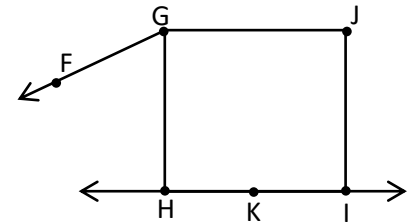*Answer each question as precisely and accurately as possible. When applicable, show all work.*

For #1-7, use the diagram to the right.

1. Name a plane. What way of naming a plane isn't an option in this diagram?

2. Name three segments in the plane that you named for #1.

3. How many planes are shown?

4. Are A, D, and C collinear? Why or why not?

5. Are A, E, B, C coplanar? Why or why not? If not, name 4 points that are coplanar.

6. Name three segments that intersect at B.   7. Name the intersection of EBC and $\overline{AB}$.

For #8-11, use the diagram to the right.

8. Name the ray.

9. Name the line 2 different ways. What way of naming a line isn't an option for the line in this diagram?

10. Name the angle formed in the lower right corner in three ways.

11. Draw and label a diagram to show the following: $\overrightarrow{ST}$ lies in ABC
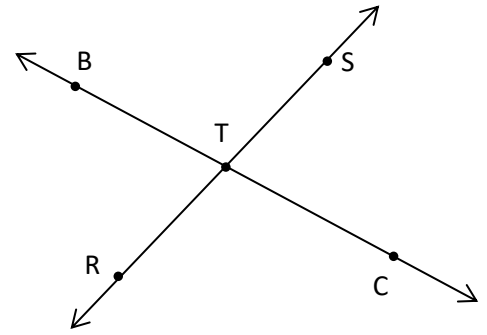
12. Can the same ray be called $\overrightarrow{AB}$ and $\overrightarrow{BA}$?   YES   NO   13. Can the same ray be called $\overrightarrow{AB}$ and $\overrightarrow{AC}$? YES   NO

14. Can the same segment be called $\overline{AB}$ and $\overline{BA}$? YES   NO   15. Can the same line be called $\overleftrightarrow{AB}$ and $\overleftrightarrow{BA}$? YES   NO

16. Can the same line be called $\overleftrightarrow{AB}$ and $\overleftrightarrow{BC}$?   YES   NO

17. Fill in the table below.

Word	Sketch (with labels)	Name/Notation	Definition
Parallel Lines			
Midpoint			

For #18-22, use the diagram at the right. Classify as Yes or NO.

18. Are C, T, and B collinear?   YES   NO
19. Is $\overleftrightarrow{RS}$ the same as $\overleftrightarrow{RT}$?   YES   NO
20. Is $\overrightarrow{TR}$ the same as $\overrightarrow{RT}$?   YES   NO
21. Are R, T, & C collinear?   YES   NO
22. Do four rays start at T?   YES   NO

For #23-28, draw a diagram that includes all of the described features.

23. A, B C, and D are collinear	24. A lies on line m
25. $\overrightarrow{AB} \perp \overleftrightarrow{CD}$	26. line m lies in plane $\mathcal{B}$
27. $\angle CAT$ is a right angle	28. A, B, and C are coplanar, but D is not

For #29-32, use the diagram provided in the box with #29 to precisely answer each question.

29. How many planes appear in this diagram? List two different names for one of the planes.	30. Name two objects that intersect at F.
31. Are A, B, F, D, and C coplanar? Why or why not?	32. What is the intersection of CAB and DFE?