

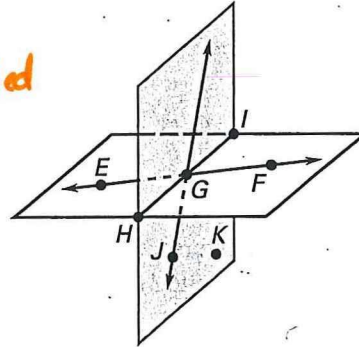
LESSON
1.1

Practice

For use with pages 2-8

Use the diagram to decide whether the given statement is *true* or *false*.

1. Points $H, I,$ and G are collinear. **T**
2. Points $H, I,$ and J are coplanar. **T** (all on the shaded plane)
3. \overrightarrow{EG} and \overrightarrow{FG} are opposite rays. **F**
4. All points on \overrightarrow{GI} and \overrightarrow{GF} are coplanar. **T**
5. The intersection of \overleftrightarrow{EF} and plane JKH is \overleftrightarrow{HI} . **F**
6. The intersection of $\overleftrightarrow{EF}, \overleftrightarrow{HI},$ and \overleftrightarrow{JG} is point G . **T**
7. The intersection of plane EGH and plane JGI is point G . **F**
8. The intersection of plane EFI and plane JKG is \overleftrightarrow{HG} . **T**



Sketch the figure described.

9. Two rays that do not intersect
10. Three planes that intersect in one line
11. Three lines that intersect in three points
12. A ray that intersects a plane in one point

In Exercises 13-15, use the diagram.

13. Name 12 different rays.

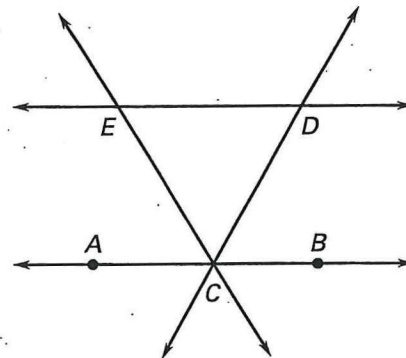
\overrightarrow{AB} \overrightarrow{BA} \overrightarrow{CD} \overrightarrow{CB} \overrightarrow{DC} \overrightarrow{ED}
 \overrightarrow{AC} \overrightarrow{BC} \overrightarrow{CE} \overrightarrow{CA} \overrightarrow{DE} \overrightarrow{EC}

14. Name a pair of opposite rays.

\overrightarrow{CA} and \overrightarrow{CB}

15. Name 3 lines that intersect at point C .

\overleftrightarrow{EC} , \overleftrightarrow{BC} , \overleftrightarrow{CD}



LESSON
1.1

Practice *continued*
For use with pages 2-8

16. Draw four noncollinear points $A, B, C,$ and D . Then sketch $\overline{AB}, \overrightarrow{BC},$ and \overleftrightarrow{AD} .

17. Sketch plane M intersecting plane N . Then sketch plane O so that it intersects plane N , but not plane M .

You are given an equation of a line and a point. Use substitution to determine whether the point is on the line.

18. $y = 5x + 3; A(1, 8)$
 $8 = 5(1) + 3$
 $8 = 5 + 3$
 $8 = 8 \checkmark$ **YES**

19. $y = -x + 3; A(6, 3)$
 $3 = -(6) + 3$
 $3 = -6 + 3$
 $3 \neq -3$ **NO**

20. $y = -3x - 6; A(2, 0)$

21. $2x - y = 7; A(3, -1)$

22. $x + 6y = 40; A(-10, 5)$

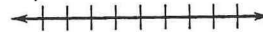
23. $-x - 4y = -14; A(-6, 2)$

Graph the inequality on a number line. Tell whether the graph is a segment, a ray or rays, a point, or a line.

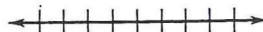
24. $x \geq 2$



25. $2 \leq x \leq 5$



26. $x \leq 0$ or $x \geq 8$



27. $|x| \leq 0$

