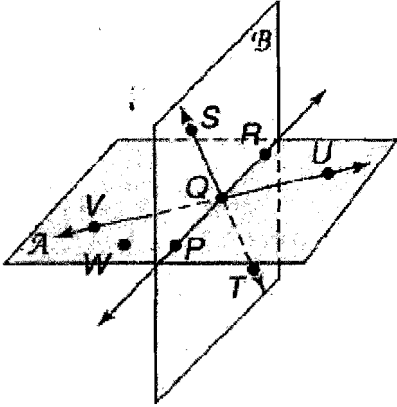


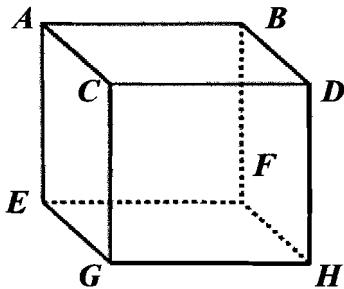
Use the figure below for #1-5.



1. What is the intersection of \overleftrightarrow{ST} and \overleftrightarrow{VU} ?
2. What is the intersection of planes \mathcal{A} and \mathcal{B} ?
3. Name a pair of opposite rays with endpoint Q .
4. What is the intersection of \overleftrightarrow{ST} and plane \mathcal{A} ?
5. Name a set of 3 collinear points.

6. Sketch and label a figure: Vertical plane X contains line k but not line m . Lines k and m intersect at point T .

Use the figure below for #7-9.

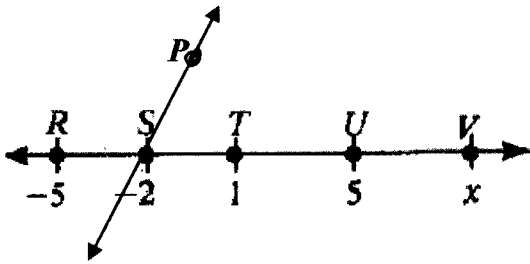


7. Name three lines that intersect at B .
8. Name two planes that intersect in \overleftrightarrow{CG} .
9. Are points $A, E, F,$ and H coplanar?

10. In the diagram below, $\overline{AC} \cong \overline{CE}$ and B is the midpoint of \overline{AC} . If $CD = 2$ and $AB = 3$,
 $BC = \underline{\hspace{1cm}}$, $AC = \underline{\hspace{1cm}}$, and $DE = \underline{\hspace{1cm}}$.

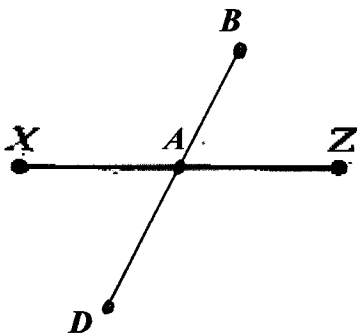


Use the figure below for #11-15.



11. Give another name for \overrightarrow{TR} .
12. If \overleftrightarrow{PS} bisects \overline{RT} , then _____ \cong _____.
13. Find the length of \overline{RT} .
14. What is the coordinate of the midpoint of \overline{SU} ?
15. By segment addition, _____ + _____ = TV .

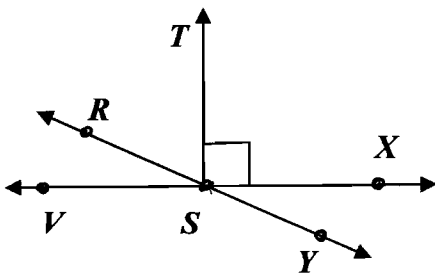
Use the figure below for #16-17. Point A is the midpoint of \overline{XZ} .



16. If $XA = 6n + 5$ and $AZ = 9n - 4$, find n and the length of \overline{XZ} .

17. If $DA = 3(y + 7)$, $AB = 2(y - 3)$, and $BD = 50$, find y and the length of \overline{DA} .

Use the figure below for #18-21; $m\angle RSV = 23^\circ$.



18. $m\angle RST =$ _____, $m\angle RSX =$ _____, $m\angle XSY =$ _____

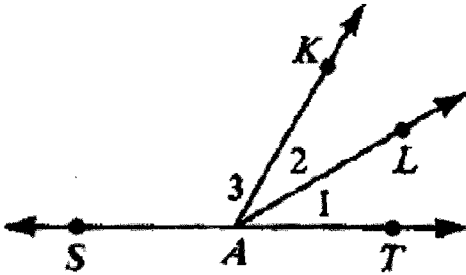
Is the angle acute, right, or obtuse?

19. $\angle TSV$

20. $\angle YSV$

21. $\angle XSY$

Use the figure below for #22-26.



22. Name the sides of $\angle KAL$.

23. $\angle KAT$ is adjacent to \angle _____.

24. If \overrightarrow{AL} bisects $\angle KAT$, then \angle _____ \cong \angle _____.

25. By angle addition, $m\angle TAL + m\angle LAK = m\angle$ _____.

26. If \overrightarrow{AL} bisects $\angle KAT$, $m\angle 1 = 2x + 3$, and $m\angle 3 = 12x + 30$, find x .

True or False?

27. Two planes intersect in exactly one point.

28. Two intersecting lines are always coplanar.

29. Three collinear points lie in exactly one plane.

30. There is exactly one line through two points.

31. A plane contains an infinite set of points.

32. Suppose you have a set of four points, three of which are collinear. How many different lines can you draw through these points? (draw a figure)