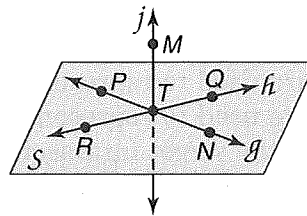


1-1 Practice

Points, Lines, and Planes

Refer to the figure.

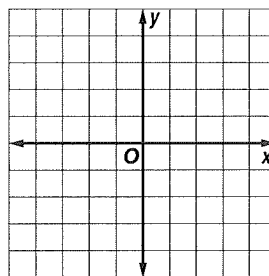


1. Name a line that contains points T and P .
2. Name a line that intersects the plane containing points Q , N , and P .
3. Name the plane that contains \overline{TN} and \overline{QR} .

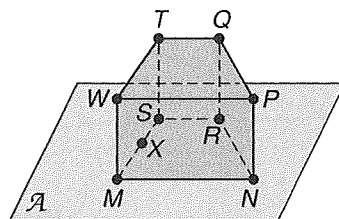
Draw and label a figure for each relationship.

4. \overline{AK} and \overline{CG} intersect at point M in plane \mathcal{T} .

5. A line contains $L(-4, -4)$ and $M(2, 3)$. Line q is in the same coordinate plane but does not intersect \overline{LM} . Line q contains point N .

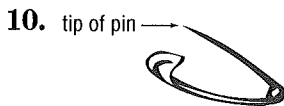


Refer to the figure.



6. How many planes are shown in the figure?
7. Name three collinear points.
8. Are points N , R , S , and W coplanar? Explain.

VISUALIZATION Name the geometric term(s) modeled by each object.



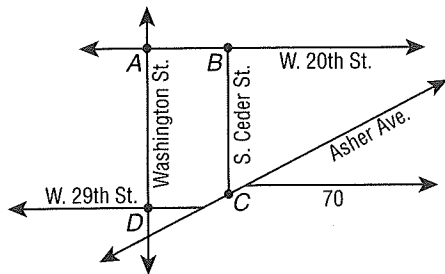
12. a car antenna

13. a library card

1-1 Word Problem Practice

Points, Lines, and Planes

- 1. STREETS** The map shows some of the roads in downtown Little Rock. Lines are used to represent streets and points are used to represent intersections. Four of the street intersections are labeled. What street corresponds to line AB ?



- 2. FLYING** Marsha plans to fly herself from Gainesville to Miami. She wants to model her flight path using a straight line connecting the two cities on the map. Sketch her flight path on the map shown below.

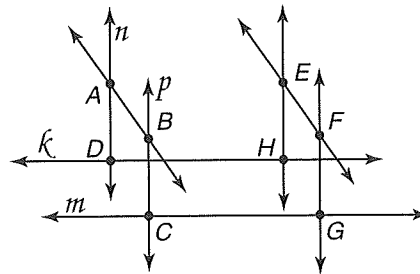


- 3. MAPS** Nathan's mother wants him to go to the post office and the supermarket. She tells him that the post office, the supermarket and their home are collinear, and the post office is between the supermarket and their home. Make a map showing the three locations based on this information.

- 4. ARCHITECTURE** An architect models the floor, walls, and ceiling of a building with planes. To locate one of the planes that will represent a wall, the architect starts by marking off two points in the plane that represents the floor. What further information can the architect give to specify the plane that will represent the wall?

CONSTRUCTION For Exercises 5 and 6, use the following information.

Mr. Riley gave his students some rods to represent lines and some clay to show points of intersection. Below is the figure Lynn constructed with all of the points of intersection and some of the lines labeled.



5. What is the intersection of lines k and n ?
6. Name the lines that intersect at point C .
7. Are there 3 points that are collinear and coplanar? If so, name them.