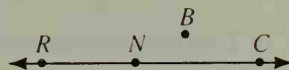


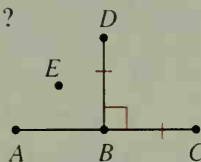
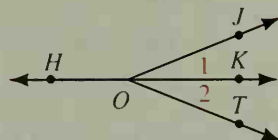
Self-Test 2

- Write three names for the line pictured.
- Name the ray that is opposite to \overrightarrow{NC} .
- Is it correct to say that point B lies between points N and C ?
- When $RN = 7$, $NC = 3x + 5$, and $RC = 18$, what is the value of x ?



Complete.

- $m\angle 1 + m\angle 2 = m\angle \underline{\hspace{1cm}}$
- If $\angle 1 \cong \angle 2$, then $\underline{\hspace{1cm}}$ is the bisector of $\angle \underline{\hspace{1cm}}$.
- $m\angle HOK = \underline{\hspace{1cm}}$, and $\angle HOK$ is called a(n) $\underline{\hspace{1cm}}$ angle.
- Which of the four things stated *can't* you conclude from the diagram?
 - A , B , and C are collinear.
 - $\angle DBC$ is a right angle.
 - B is the midpoint of \overline{AC} .
 - E is in the interior of $\angle DBA$.



Apply postulates and theorems to complete the statements.

- Through any two points $\underline{\hspace{1cm}}$.
- If points A and B are in plane Z , $\underline{\hspace{1cm}}$.
- If two planes intersect, then $\underline{\hspace{1cm}}$.
- If there is a line j and a point P not in the line, then $\underline{\hspace{1cm}}$.

Chapter Summary

- The concepts of *point*, *line*, and *plane* are basic to geometry. These undefined terms are used in the definitions of other terms.
- \overleftrightarrow{AB} represents a line, \overline{AB} a segment, and \overrightarrow{AB} a ray. AB represents the length of \overline{AB} ; AB is a positive number.
- Two rays with the same endpoint form an angle.
- Congruent segments have equal lengths. Congruent angles have equal measures.
- Angles are classified as acute, right, obtuse, or straight, according to their measures.
- Diagrams enable you to reach certain conclusions. However, judgments about segment length and angle measure must not be made on the basis of appearances alone.
- Statements that are accepted without proof are called postulates. Statements that are proved are called theorems.
- Postulates and theorems in this chapter deal with distances, angle measures, points, lines, and planes.