

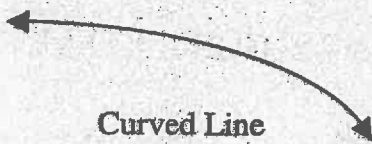
Geometry Terms

Geometry: The study of the properties and relationships of points, lines, planes, and solids.

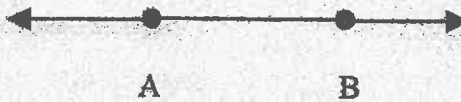
I. **Undefined terms:** _____

A. **Point:** Has no _____, _____, or _____. It merely indicates a

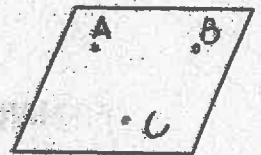
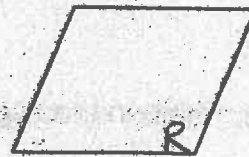
B. **Line:** An infinite set of _____ that extends endlessly in both directions.



Symbolism:



C. **Plane:** A set of points that extends _____ across a
_____ in all directions.



II. **Definitions:** _____

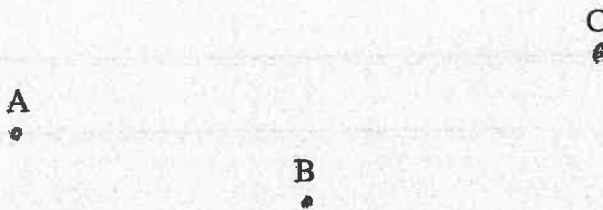
A. **Collinear Set of Points:** Set of points, all of which lie on the same _____

A
•

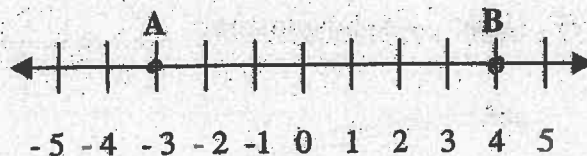
B
•

C
•

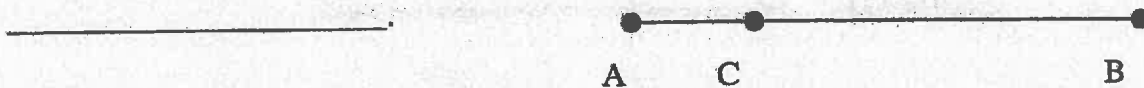
B. **Non-Collinear Set of Points:** Set of _____ point that do not lie on the same _____.



C. **Distance between any two points on the real number line:** the absolute value of the difference of the coordinates of two points.



D. **Line Segment:** Part of a line consisting of 2 _____ and the _____.

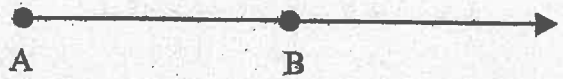


E. **Congruent Segments:** Segments that have _____.

F. **Midpoint:** Point on the segment that _____ it into _____.

G. **Bisector:** A line or subset of a line that intersects a segment at its _____.

H. **Ray:** Part of a line consisting of _____ and all the points on _____ of the endpoint.



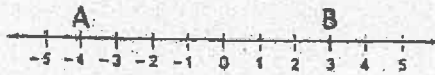
I. **Opposite Rays:** Two rays of the _____ with a common _____ and no other _____ in common.



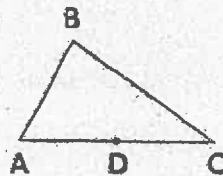
J. **Betweenness of Points on a Line:** B is between A and C if A , B , and C are distinct collinear points and $AB + BC = AC$

Examples:

1. Find the distance between the points whose coordinates on the real number line are -4 and 3 .

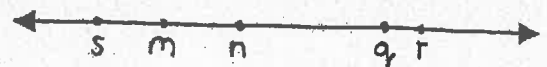


2. In the figure, A , B , and C are the vertices of a triangle, and D is a point on \overline{AC} .



- Name three collinear points.
- Name three noncollinear points.
- Which point is between A and C ?
- If D is the midpoint of \overline{AC} , name two congruent segments in the figure.

3. Use the figure shown:



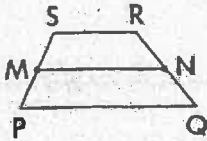
- Name a point between s and n .
- Name a point between s and q and also between m and r .
- Name two rays, each of which has point m as an endpoint.

4. Find the required distance if A, B, and C are collinear points and point B is between A and C.

a. $AB = 5, BC = 7, AC = ?$

b. $AB = 3, AC = 18, BC = ?$

5.



\overline{MN} bisects \overline{RQ}

1. _____

2. _____

6. Use the figure in #5 to complete the following statements.

a. $SP - SM = \underline{\hspace{2cm}}$

b. $RN + NQ = \underline{\hspace{2cm}}$

c. $RQ - NQ = \underline{\hspace{2cm}}$