

Lines, Rays, and Segments

Notation B-T-M

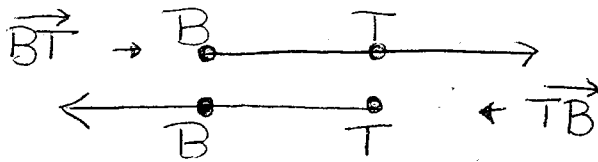
- 1) points are collinear
- 2) point T is between B & M

\overleftrightarrow{AB} Line - geometric set of points that are straight & infinite

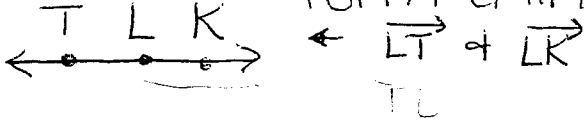
Line segment - part of a line with 2 distinct end points $\overline{CD} = \overline{DC}$

Ray - part of a line w/ one distinct end point

- 1) first letter indicates end pt.
- 2) second letter indicates direction



Opposite Rays - 2 rays w/ same end pt. which form a line



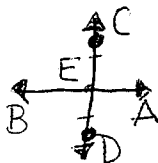
Congruent - to have the same measure

$$\overline{AB} = \overline{CD}$$

$$\overline{AB} \cong \overline{CD}$$

Bisect - to divide into 2 equal parts

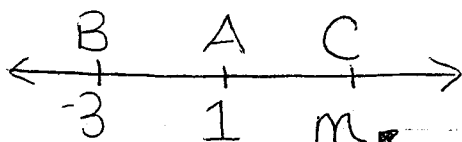
\overleftrightarrow{BA} bisects \overline{CD} at E



Distance

A capital letter will represent a point
(geometric)

A lower-case letter will represent a
coordinate value (numerical)



represents a
numerical value

Distance Between 2 Points

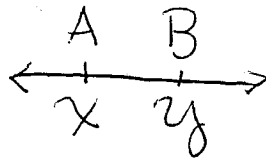
BA represents the distance between
point 'B' and point 'A'

$$BA = 4$$

$$AB = 4$$

$$AC = m - 1$$

In general, $AB = |y - x|$
(def. of distance)



Collinear - set of points on the same
line