### **Foundations to Geometry**

## **Chapter Review**

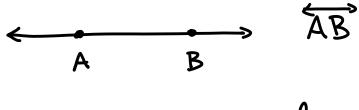




Points, Lines and Planes

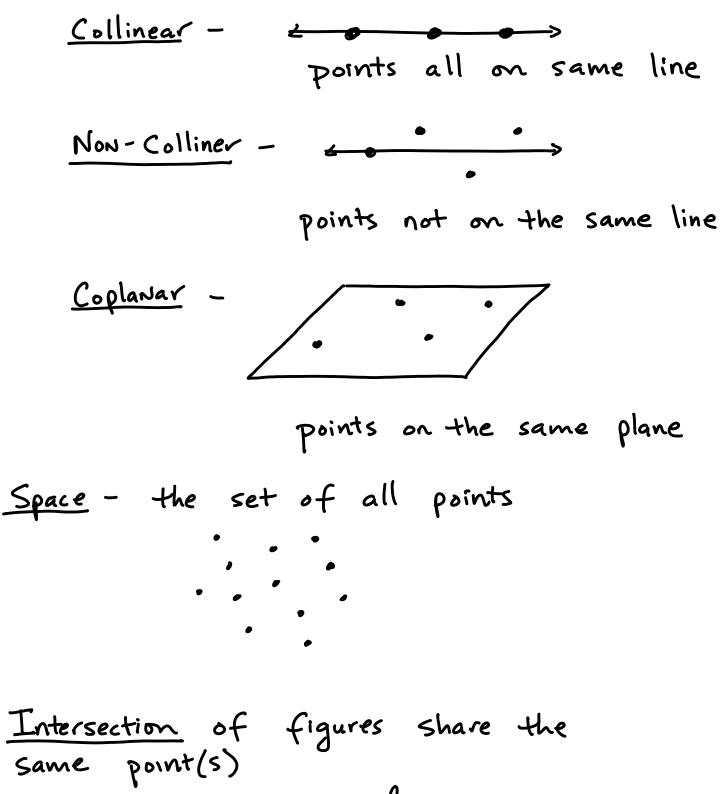
the terms points, lines, and planes can not be defined

How we name lines



How we name planes





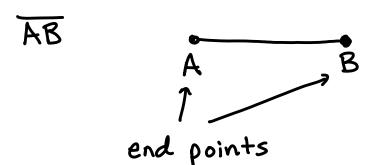
Intersection of figures share the same point(s)

point A is on line I and m - therefore it is the intersection of I and m.

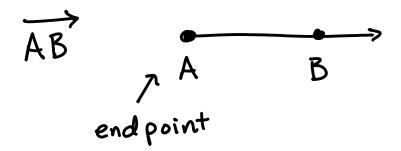
## Line Segments and Rays



Line segment - part of a line



Ray - end point/line

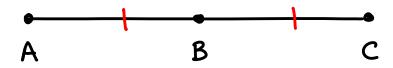


length/distance between two points

length = absolute value of difference of end-points

# Congruent Segments - same length $\overline{AB} \cong \overline{CD}$ Congruent

Mid-Point - point that divides segment into two congruent segments

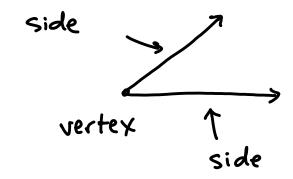


B is the midpoint of  $\overline{AC}$ therefore  $\overline{AB} \cong \overline{BC}$ 

## Bisector - can be a line, segment or plane that intersects midpoint A C B

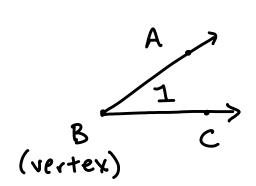


## **Angles**



Angles - two rays that start at same end point

## Can name angles in various ways



Name for same angle

ZABC, ZCBA, ZI

vertex

m LABC = 50° reasure of angle LABC

## Classify Angles by Angle Measure m L less 90° - acute angle m L = 90° - right angle ~ m L greater 90° less than 180° - obtuse angle m L = 180° - straight angle

Congruent Angles = angle measure

mLABC = 50°

mLEFG = 50°

LABC \( \text{LEFG} \)

Adjacent Angles

L3, L2 are
adjacent angles
share common
side

share same vertex

## Postulates and Theorems

Postulate - statements accepted without proof

Theorems - statements that can be proved