# Chapter 1 Basics of Geometry



- 1.1 Points, Lines and Planes
- **1.2 Measuring and Constructing Segments**
- 1.3 Using Midpoint and Distance Formulas
- 1.4 Perimeter and Area in the Coordinate Plane
- 1.5 Measuring and Constructing Angles
- 1.6 Describing Pairs of Angles

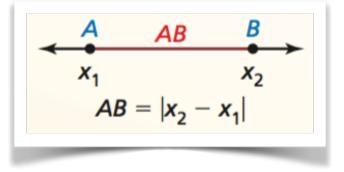
Vocabulary

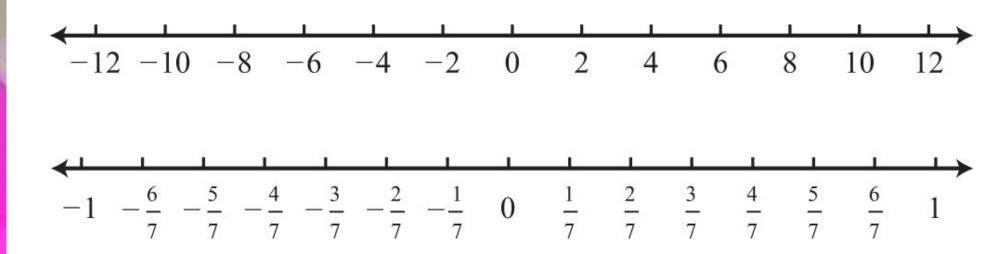
**Postulate** - a rule or statement that is accepted without proof. Also called an "axiom".

**Theorem** - a rule or statement that can be proved.

#### Vocabulary

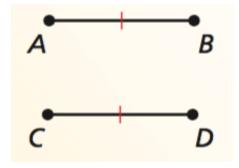
**Distance** - the absolute value of the difference of the coordinates of points A and B.

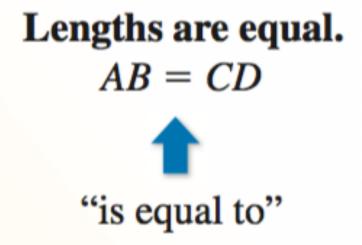


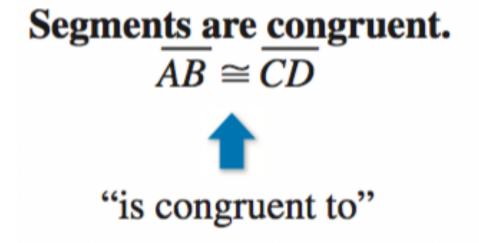


#### Vocabulary

**Congruent segments** - line segments that have the same length.







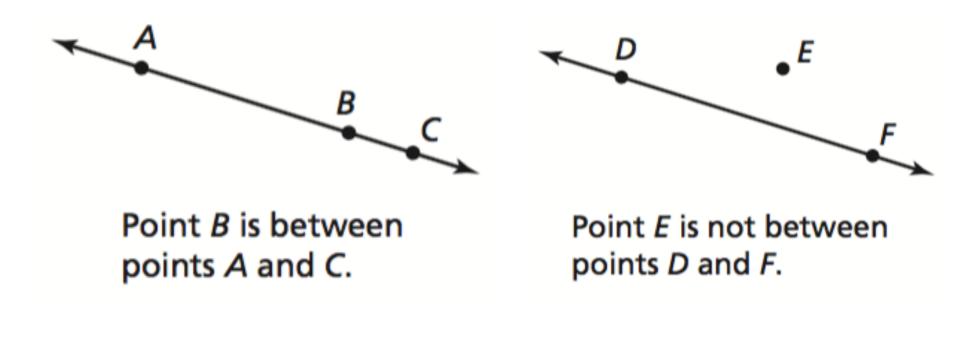
**Construction** - a geometric drawing using only a compass and straightedge.

**Copy a Segment** 



### Vocabulary

**Between** - when three points are collinear, one point is "between" the other two.



#### **Segment Addition Postulate**

If point B is between points A and C, then AB + BC = AC.

