Notes 6.2 Segment addition postulate

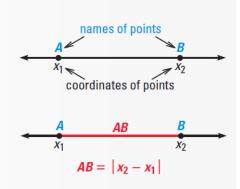
POSTULATE 1 Ruler Postulate

The points on a line can be matched one to one with the real numbers.

The real number that corresponds to a point is the **coordinate** of the point.

The **distance** between points *A* and *B*, written as *AB*, is the absolute value of the difference between the coordinates of *A* and *B*.

AB is also called the **length** of \overline{AB} .



When three points lie on a line, you can say that one of them is **between** the other two. This concept applies to collinear points only. For instance, in the figures below, point B is between points A and C, but point E is not between points D and E.



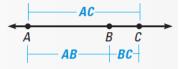
Point B is between points A and C.



Point E is not between points D and F.

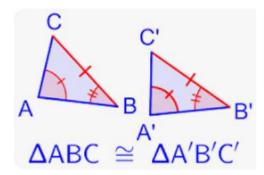
POSTULATE 2 Segment Addition Postulate

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



Congruent:

Two geometric figures are said to be congruent, or to be in the relation of congruence, if it is possible to superpose one of them on the other so that they coincide throughout.



The symbol for congruent is: \cong