

10/11/11

2-7 Segment Relationships

Ruler Postulate:

The points on any line segment can be paired with real #s so that they can ^{be} measured with a ruler.

Segment Addition Postulate:

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

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



Segment Congruence Theorem:

Congruence of segments is reflexive, symmetric and transitive:

• Reflexive: $\overline{AB} \cong \overline{AB}$

• Symmetric: If $\overline{CD} \cong \overline{EF}$, then $\overline{EF} \cong \overline{CD}$.

• Transitive:

If $\overline{GH} \cong \overline{IJ}$ and $\overline{IJ} \cong \overline{KL}$, then $\overline{GH} \cong \overline{KL}$.