SEGMENT PROOFS

Reference

Properties of Equality

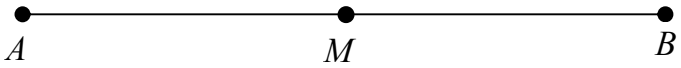
Addition Property Subtraction Property Multiplication Property Division Property Distributive Property	Substitution Property Reflexive Property Symmetric Property Transitive Property

The properties above may only be used with EQUAL signs.
The properties of congruence below can be applied to statements with congruence symbol.

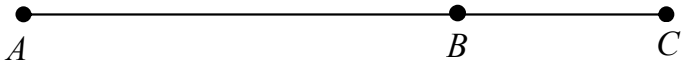
Properties of Congruence

Reflexive Property of Congruence	For any segment AB, _____.
Symmetric Property of Congruence	If _____, then _____.
Transitive Property of Congruence	If _____ and _____, then _____.

Definitions

Definition of Congruence	Segments are congruent if and only if they have the same measure: If _____, then _____. If _____, then _____.
Definition of Midpoint	The midpoint of a segment divides the segment into two congruent parts (equal lengths).
	If M is the midpoint of $\overline{AB}$,  then _____.

Postulates

Segment Addition Postulate	If A, B, and C are collinear points and B is between A and C,  then _____.