

Ways to prove Triangles Congruent

Method	Description	Visual
SSS	All 3 sides congruent side-side-side	
SAS	2 sides + included angle congruent	
ASA	2 angles + included side congruent	
AAS	2 angles + non-included side congruent	

Ways to prove Right Triangles Congruent

Method	Description	Visual
LL	same as SAS	
LA	same as ASA	
HA	same as AAS	
HL	same as ASS but with right angle	

Ways that you cannot prove triangles congruent

Method	Reason Cannot be Proven	Visual
ASS SSA	only works in a right triangle	
AAA	may have similar triangles but not necessarily congruent triangles.	