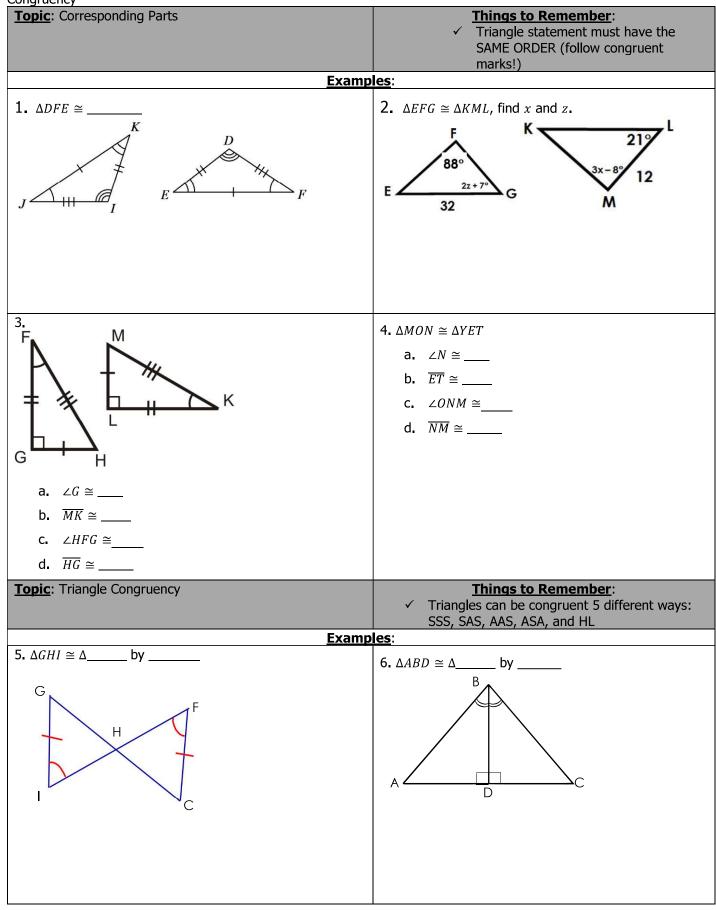
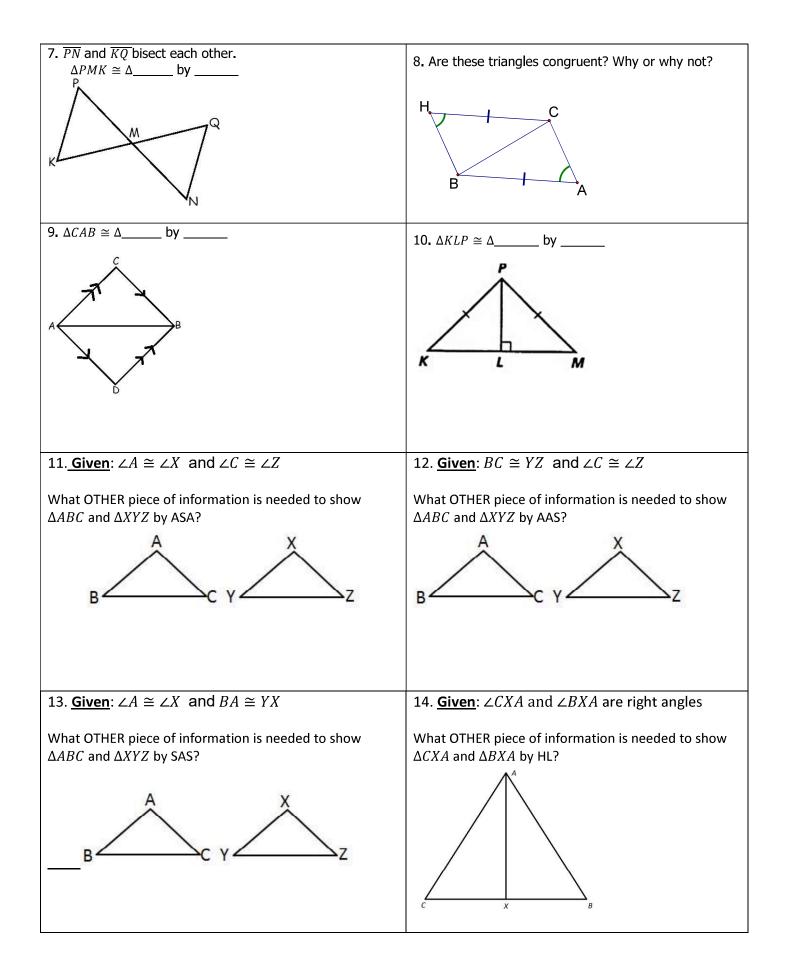
Name: _____







Topic: Proofs		Things to Remember: ✓ State what is given FIRST ✓ MARK YOUR DIAGRAM! ✓ Step 1 – Write down the givens ✓ Step 2 – Make any marks that you know are congruent (reflexive property, vertical angles, alternate interior angles) ✓ Step 3 – BUILD OFF YOUR GIVENS; YOU CANNOT ASSUME ANYTHING IF IT IS NOT TOLD TO YOU!!! ✓ Step 4 – Statement will always be showing the Triangles are ≅ (SSS, SAS, ASA, AAS, HL ✓ Step 5 – AFTER two triangles are congruent, then you can use CPCTC	
Examples: SSS SAS ASA AAS HL CPCTC Vertical Angles are ≅			
Reflexive Property	Alternate Interior A	-	Right Angles are ≅
Transitive Property Definition of a Midp		· · · · i	
Definition of Bisector Definition of Perpendicular Definition of congruence			
A D C A D C 18. Given: $\overline{AB} \cong \overline{DC}, \overline{AB} \perp \overline{BC},$ and $\overline{CD} \perp \overline{AD}$ Prove: $\triangle ABC \cong \triangle CDA$		17. Using the figure on the left, if BD bisects $\angle ABC$, what can you assume? 19. Given: \overline{RV} and \overline{SU} bisect each other Prove: $\angle TSR \cong \angle TUV$	
Statements	Reasons	Statements	Reasons
1. $\overline{AB} \cong \overline{DC}$	1.	1.	1.
2. $\overline{AB} \perp \overline{BC}$	2.	2.	2.
3. $\overline{CD} \perp \overline{AD}$	3.	3.	3.
	4.	4.	4.
$5. \angle ABC \cong \angle CDA$ $6. \overline{AC} \cong \overline{AC}$	5. 6.	5.	5.
AC = AC 7. ΔABC ≅ ΔCDA	7.	6. ∠TSR ≅ ∠TUV	6.