Date: _

3.

6.

Name: _____ CC Geometry

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1.

Review for Triangle Proofs Quiz

In 1-9, each figure shows two triangles and congruent parts have been marked. Identify the postulate (SSS, SAS, ASA, AAS or HL) that can be used to prove that the triangles are congruent, or write "can't be done".











5.









10. Name the sides that would have to be congruent to use the SSS congruence postulate.



11. Name the sides that would have to be congruent to use the SAS congruence postulate.



12. Name the angles that would have to be congruent to use the ASA congruence postulate.



13. Name the angles that would have to be congruent to use the SAS congruence postulate.



14. Name the angles that would have to be congruent to use the AAS congruence postulate.



15. Name the sides that would have to be congruent to use the SAS congruence postulate.



Triangle Congruence

Name the congruent triangles.





II. Name the congruent triangle and the congruent parts.





Use the congruency statement to fill in the corresponding congruent parts.











Proving Triangles Congruent

 $\begin{array}{ll} & \mathcal{A}, & \text{Given: } \angle P \text{ and } \angle M \text{ are right angles.} \\ & R \text{ is the midpoint of } \overline{PM}. \\ & \overline{PQ} \cong \overline{MN}, \ \overline{QR} \cong \overline{NR} \\ & \text{Prove: } \triangle PQR \cong \triangle MNR \end{array}$



II. For each pair of triangles, tell: (a) Are they congruent? (b) Write the triangle congruency statement.(c) Give the postulate that makes them congruent.





III. Using the given postulate, tell which parts of the pair of triangles should be shown congruent.



Name:

Triangle Proofs Worksheet

For each problem below, write a two-column proof on a separate piece of paper.



9. Given: $\overline{AC} \cong \overline{AD}$, $\overline{CB} \cong \overline{DB}$ Prove: \overline{AB} bisects $\angle CAD$.

