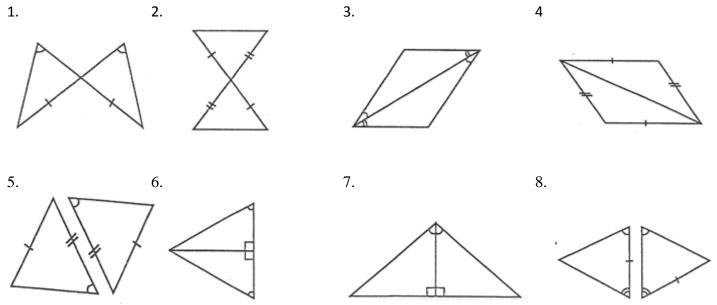
Geometry R – Mr. Bo Unit 5 – Day 2 HW

| Name: | | |
|-------|--|--|
| Date: | | |

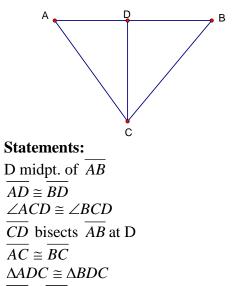
State whether each pair of triangles is congruent by SSS, SAS, AAS, or ASA. If no method works, write NONE.



SSS, SAS, ASA, AAS Proofs: Complete a proof for each (2-column, paragraph, or flow chart) (The statements are provided in no particular order and at least one statement does not belong.)

1. Given: \overline{CD} bisects \overline{AB} at D $\overline{AC} \cong \overline{BC}$

Prove: $\triangle ADC \cong \triangle BDC$

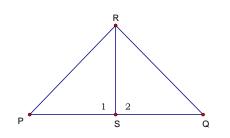


 $\overline{CD} \cong \overline{CD}$

2. Given: $\overline{RS} \perp \overline{PQ}$

 \overrightarrow{RS} bisects < PRQ

Prove: $\triangle PRS \cong \triangle QRS$

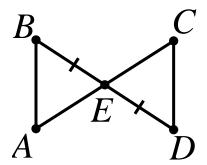


Statements

| $\angle 1 \cong \angle 2$ | \overline{RS} bisects $\angle PRQ$ |
|-------------------------------------|--------------------------------------|
| $\overline{RS} \perp \overline{PQ}$ | $\overline{RS} \cong \overline{RS}$ |
| $\Delta PRS \cong \Delta QRS$ | $\angle PRS \cong \angle QRS$ |
| $\angle 1$ is a right angle | $\angle 2$ is a right angle |
| S is the midpoint of PQ | $\angle 1 supp. \angle 2$ |

3. Given: \overline{BD} bisects \overline{AC} (Hint: Use the "Rainbow Connection") $\overline{BE} \cong \overline{DE}$

Prove: $\triangle ABE \cong \triangle CDE$



Statements: Not Provided. Good Luck!