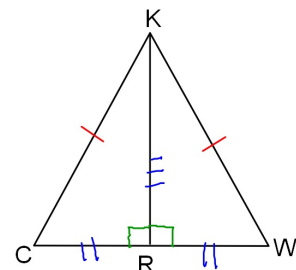


Ways to prove triangles are congruent:

1. SAS
2. SSS
3. AAS
4. ASA
5. HL

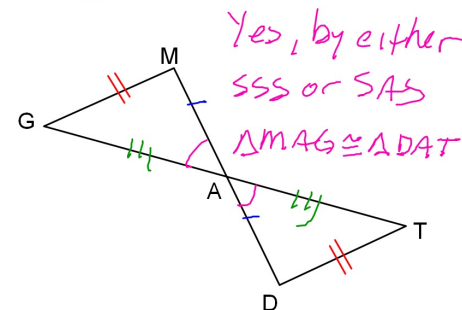
Is each pair of triangles congruent? If yes, give a reason and write a congruence statement.

1. \overline{KR} is a \perp bisector of \overline{CW} .



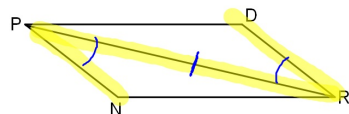
Yes, by either SSS or SAS
 $\triangle KRC \cong \triangle KRW$

2. \overline{MD} and \overline{GT} bisect each other



Yes, by either
 SSS or SAS
 $\triangle MAG \cong \triangle DAT$

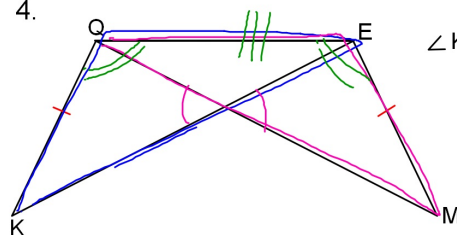
3.



$\overline{DR} \parallel \overline{NP}$

NOT enough info

4.



$\angle KQE \cong \angle MEQ$

SAS
 $\triangle KQE \cong \triangle MEQ$

Writing congruent triangle proofs:

1. Label the figure with symbols representing the given information and what you know is true by the way the figure is drawn.
2. "Read" the triangles to see what postulate is used to prove that the triangles are congruent (SAS, SSS, ASA, AAS, HL).
3. Write the proof. All three parts of the postulate you are using must be included in the proof.
4. Your last line of your proof should be a congruence statement (ex: $\triangle ABC \cong \triangle DEF$) and then SAS, SSS, AAS, ASA, or HL as the reason.

PLAN