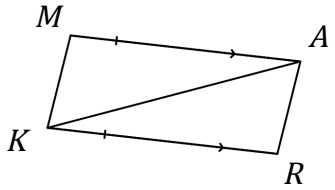
Name _____ Date_____

Triangles – Part 1
Triangle Congruence – SSS and SAS – Part 2
Independent Practice

1. Ernie draws ΔMAR and ΔNIL where $\overline{MR} \cong \overline{NL}$, $\overline{MA} \cong \overline{NI}$, and $\angle A \cong \angle I$. Draw a sketch of ΔMAR and ΔNIL to determine if Ernie can use either SSS or SAS to prove the two triangles congruence. If the answer is no, explain what additional information the Ernie needs.

2. Consider quadrilateral $MARK$.

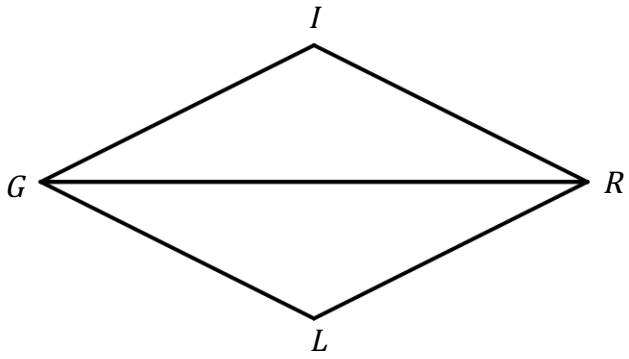


Given: $\overline{MA} \cong \overline{RK}$ and $\overline{MA} \parallel \overline{RK}$
Prove: $\Delta MAK \cong \Delta RKA$

Statements	Reasons
1.	**1.**
2.	**2.**
3.	**3.**
4.	**4.**
5.	**5.**

3. Rose claims that since $\Delta MTW \cong \Delta RFS$ are both equiangular triangles, then they must be congruent by the SSS Congruence Postulate. Determine whether Rose correct or incorrect? Justify your answer.

4. Complete the paragraph proof.



Given: $\overline{GI} \cong \overline{IR} \cong \overline{GL} \cong \overline{RL}$
Prove: $\Delta GIR \cong \Delta GLR$

$\overline{GR}$ is congruent to $\overline{GR}$ by the _____ property of congruence. Since it is given that _____, then it is possible to say $\Delta GIR \cong \Delta GLR$ by _____ Congruence Postulate.

5. Draw ΔTHS and complete the sentences below.

Part A: The angle that is included between $\overline{HT}$ and $\overline{ST}$ is _____.

Part B: _____ and _____ include $\angle S$.