

Name _____ Date _____ Hour _____

2.7 State the conclusion and the reason.1. Given: $\angle 3$ supp $\angle 4$
 $\angle 1 \cong \angle 4$ Conclusion: $\angle 1$ supp $\angle 3$ Reason: Substitution2. Given: $\overline{JU} \cong \overline{NE}$
 $\overline{JU} \cong \overline{LY}$ Conclusion: $\overline{LY} \cong \overline{NE}$ Reason: Transitive3. Given: $\angle BAD \cong \angle GER$
 $\angle GER \cong \angle MAN$ Conclusion: $\angle BAD \cong \angle MAN$ Reason: Transitive4. Given: $\angle 1$ comp $\angle 2$
 $\angle 3 \cong \angle 2$ Conclusion: $\angle 1$ comp $\angle 3$ Reason: Substitution5. Given: $\angle 52 \cong \angle 37$
 $\angle 41 \cong \angle 37$ Conclusion: $\angle 52 \cong \angle 41$ Reason: Transitive6. Given: $\angle P \cong \angle Q$
 $\angle R \cong \angle Q$
 $\angle S \cong \angle R$ Conclusion: $\angle P \cong \angle S$ Reason: Transitive

$$\angle P \cong \angle Q \cong \angle R \cong \angle S$$

7. Given: $\angle SLA$ is a right angle
 $\angle SLA \cong \angle RJL$

Conclusion: $\angle RJL$ is a rt

Reason: Substitution

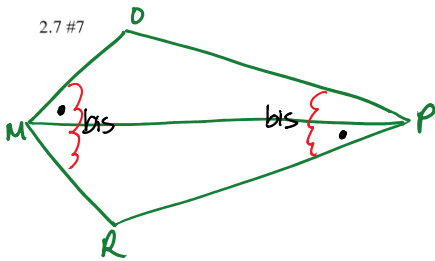
8. Given: $\overline{AB} \cong \overline{CD}$
 $CD = 37$

Conclusion: $AB = 37$

Reason: Substitution

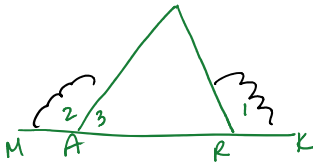
Proof:

2.7 #7



Statements	Reasons
1. $\angle DMP \cong \angle RPM$ \overline{MP} bis $\angle DMP$ \overline{PM} bis $\angle DPR$	1. Given
2. $\angle DPR \cong \angle RMP$	2. If 2 \cong angles \neq 2 \rightarrow 2 \cong angles

2.7 #11



$\therefore \angle 1$ supp $\angle 3$

Statements	Reasons
1. $\angle 1 \cong \angle 2$	1. Given
2. $\angle MNR$ is a \angle . angle	2. Assumed form diagram
3. $\angle 2$ supp $\angle 3$	3. If 2 angles form a \angle . angle \rightarrow supp
4. $\angle 1$ supp $\angle 3$	4. Substitution