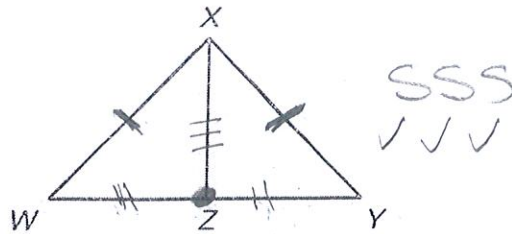


Fill in the missing statements and reasons in the proofs below.

1. Given: $\overline{WX} \cong \overline{YX}$
 Z is the midpoint of \overline{WY}

Prove: $\triangle WXY \cong \triangle YXZ$

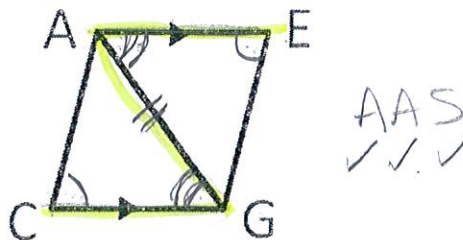


STATEMENTS	REASONS
$\overline{WX} \cong \overline{YX}$	Given
Z is the midpoint of \overline{WY}	Given
$\overline{WZ} \cong \overline{ZY}$	Def. of midpoint
$\overline{XZ} \cong \overline{XZ}$	Reflexive Property
$\triangle WXY \cong \triangle YXZ$	SSS

HOW IS THIS NEXT PROBLEM DIFFERENT?!?!?

2. Given: $\angle C \cong \angle E$
 $\overline{CG} \parallel \overline{AE}$

Prove: $\overline{AC} \cong \overline{GE}$



STATEMENTS	REASONS
$\angle C \cong \angle E$	Given
$\overline{CG} \parallel \overline{AE}$	Given
$\overline{AG} \cong \overline{AG}$	Reflexive Prop
$\angle CGA \cong \angle EAG$	Alternate Interior Angles are congruent
$\triangle CGA \cong \triangle EAG$	AAS
$\overline{AC} \cong \overline{GE}$	CPCTC

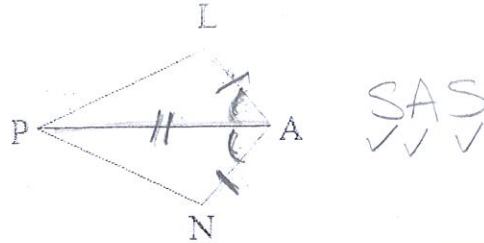
What does CPCTC stand for?! Corresponding Parts of Congruent triangle
 are Congruent



3. Given: \overline{PA} bisects $\angle LAN$

$$\overline{LA} \cong \overline{AN}$$

Prove: $\angle PLA \cong \angle PNA$

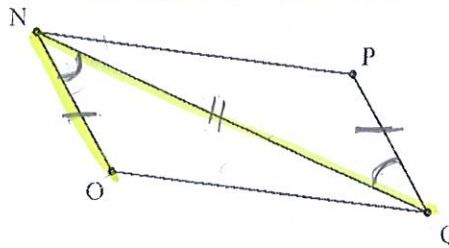


SAS
✓✓✓

STATEMENTS	REASONS
\overline{PA} bisects $\angle LAN$	Given
$\overline{LA} \cong \overline{AN}$	Given
$\angle LAP \cong \angle NAP$	Def. of angle bisector
$\overline{PA} \cong \overline{PA}$	Reflexive Property
$\triangle PLA \cong \triangle PNA$	SAS
$\angle PLA \cong \angle PNA$	CPCTC

4. Given: $\overline{NO} \cong \overline{PQ}$
 $\angle ONQ \cong \angle PQN$

Prove: $\overline{NP} \cong \overline{OQ}$

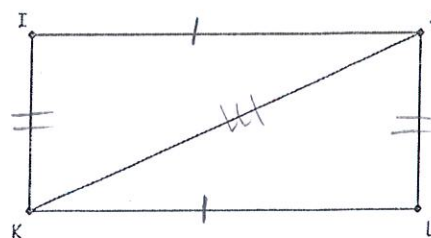


SAS
✓✓✓

STATEMENTS	REASONS
$\overline{NO} \cong \overline{PQ}$	Given
$\angle ONQ \cong \angle PQN$	Given
$\overline{NQ} \cong \overline{NQ}$	Reflexive Property
$\triangle ONQ \cong \triangle PQN$	SAS
$\overline{NP} \cong \overline{OQ}$	CPCTC

5. Given: $\overline{IJ} \cong \overline{KL}$
 $\overline{IK} \cong \overline{JL}$

Prove: $\angle I \cong \angle L$



SSS

STATEMENTS	REASONS
$\overline{IJ} \cong \overline{KL}$	Given
$\overline{IK} \cong \overline{JL}$	Given
$\overline{JK} \cong \overline{JK}$	Reflexive Property
$\triangle KIJ \cong \triangle JLK$	SSS
$\angle I \cong \angle L$	CPCTC