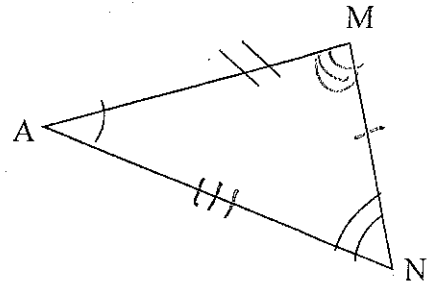
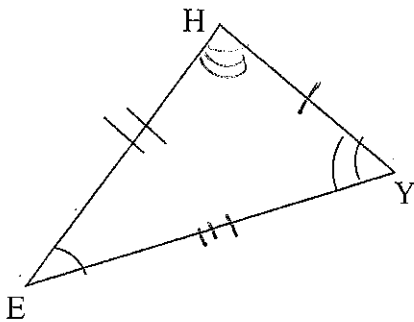


Name Key
Date _____ Hour _____

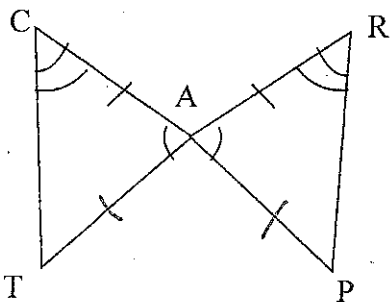
#1: $\triangle HEY$ is congruent to $\triangle MAN$ by AAS.

What other parts of the triangles are congruent by CPCTC?

$$\begin{array}{l} \underline{\angle H} \cong \underline{\angle M} \\ \underline{HY} \cong \underline{MN} \\ \underline{EY} \cong \underline{AN} \end{array}$$



#2:



$\triangle CAT \cong \triangle RAP$, by ASA

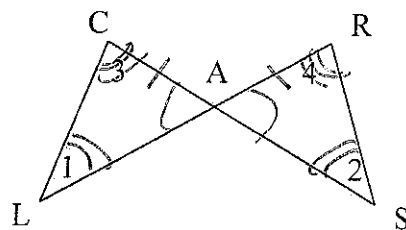
THEREFORE:

$$\begin{array}{l} \underline{\angle T} \cong \underline{\angle P}, \text{ by CPCTC} \\ \underline{AT} \cong \underline{AP}, \text{ by CPCTC} \\ \underline{CT} \cong \underline{RP}, \text{ by CPCTC} \end{array}$$

#3:

Given: $\overline{AC} \cong \overline{AR}$ and $\angle 1 \cong \angle 2$

Prove: $\angle 3 \cong \angle 4$



Proof:

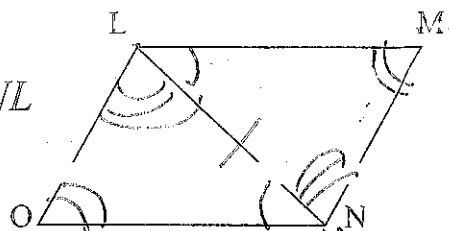
1. $\overline{AC} \cong \overline{AR}$
2. $\underline{\angle 1} \cong \underline{\angle 2}$
3. $\angle CAL \cong \angle RAS$
4. $\triangle LCA \cong \triangle RSA$
5. $\angle 3 \cong \angle 4$

1. Given
2. Given
3. Vertical Angles
4. AAS
5. CPCTC

#4:

Given: $\angle NLM \cong \angle LNO$ and $\angle OLN \cong \angle MNL$

Prove: $\angle M \cong \angle O$



Proof:

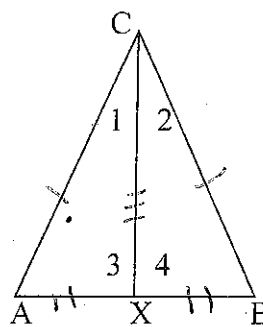
1. $\angle NLM \cong \angle LNO$
2. $\angle OLN \cong \angle MNL$
3. $\overline{LN} \cong \overline{LN}$
4. $\triangle LMN \cong \triangle NOL$
5. $\angle M \cong \angle O$

1. Given
2. Given
3. Reflexive Property of \cong
4. ASA
5. CPCTC

#5

Given: $\overline{AC} \cong \overline{BC}$ and $\overline{AX} \cong \overline{BX}$

Prove: $\angle 1 \cong \angle 2$



Proof:

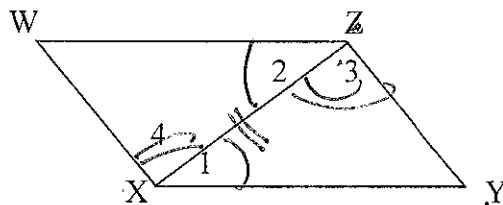
1. $\overline{AC} \cong \overline{BC}$ & $\overline{AX} \cong \overline{BX}$
2. $\overline{CX} \cong \overline{CX}$
3. $\triangle AXC \cong \triangle BXC$
4. $\angle 1 \cong \angle 2$

1. Given
2. Reflexive Prop. of Congruence
3. SSS
4. CPCTC

#6

Given: $\angle 1 \cong \angle 2$ and $\angle 3 \cong \angle 4$

Prove: $\overline{XY} \cong \overline{ZW}$



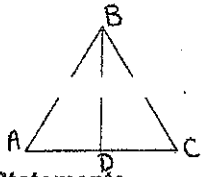
Proof:

1. $\angle 1 \cong \angle 2$ and $\angle 3 \cong \angle 4$
2. $\overline{XZ} \cong \overline{XZ}$
3. $\triangle XWZ \cong \triangle ZYX$
4. $\overline{XY} \cong \overline{ZW}$

1. Given
2. Reflexive
3. ASA
4. CPCTC

Chapter 6 Proof Practice #3 (CPCTC)

Name Kay



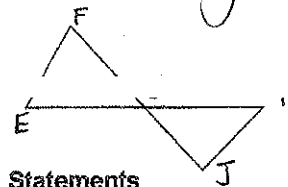
Given: $\angle BDA$ & $\angle BDC$ are right \angle 's

Prove: $\angle ABD \cong \angle CBD$

Statements

Reasons

SKIP



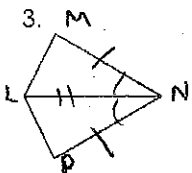
Given: G is the midpoint of \overline{EH}

Prove: $\overline{FG} \cong \overline{JG}$

Statements

Reasons

SKIP



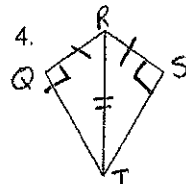
Given: $\overline{MN} \cong \overline{PN}$
 \overline{LN} bisects $\angle MNP$

Prove: $\angle MLN \cong \angle PLN$

Statements

Reasons

$MN \cong PN$	Given
\overline{LN} bisects $\angle MNP$	Given
$\overline{LN} \cong \overline{LN}$	Reflexive
$\triangle LMN \cong \triangle LPN$	SAS
$\angle MLN \cong \angle PLN$	CPCTC



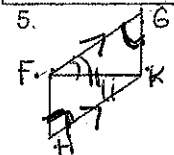
Given: $\angle Q$ & $\angle S$ are right \angle 's
 $\overline{QR} \cong \overline{SR}$

Prove: $\angle QRT \cong \angle SRT$

Statements

Reasons

$\angle Q$ & $\angle S$ are right \angle 's	Given
$\overline{QR} \cong \overline{SR}$	Given
$\overline{RT} \cong \overline{RT}$	Reflexive
$\triangle QRT \cong \triangle SRT$	HL
$\angle QRT \cong \angle SRT$	CPCTC



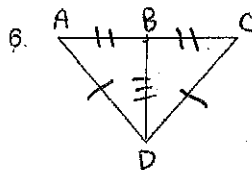
Given: $\overline{FG} \parallel \overline{HK}$,
 $\angle G \cong \angle H$

Prove: $\overline{FH} \cong \overline{KG}$

Statements

Reasons

$\overline{FG} \parallel \overline{HK}$	Given
$\angle G \cong \angle H$	Given
$\angle GFK \cong \angle HKF$	Alt. Int. Angles
$\overline{FK} \cong \overline{FK}$	Reflexive
$\triangle HKF \cong \triangle GFK$	AAS
$\overline{FH} \cong \overline{KG}$	CPCTC



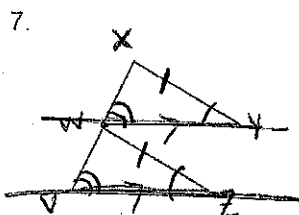
Given: $\overline{AD} \cong \overline{CD}$
 \overline{BD} bisects \overline{AC}

Prove: $\angle ADB \cong \angle CDB$

Statements

Reasons

$\overline{AD} \cong \overline{CD}$	Given
\overline{BD} bisects \overline{AC}	Given
$\overline{BD} \cong \overline{BD}$	Reflexive
$\overline{AB} \cong \overline{CB}$	def. of bisect
$\triangle ABD \cong \triangle CBD$	SSS
$\angle ADB \cong \angle CDB$	CPCTC



Given: $\overline{WY} \parallel \overline{VZ}$
 $\angle Y \cong \angle Z$
 $\overline{XY} \cong \overline{WZ}$

Prove: $\overline{VW} \cong \overline{XW}$

Statements

Reasons

$\overline{WY} \parallel \overline{VZ}$	Given
$\angle Y \cong \angle Z$	Given
$\overline{WZ} \cong \overline{XY}$	Given
$\angle XWY \cong \angle WVE$	Corresponding
$\triangle XWY \cong \triangle ZVW$	AAS
$\overline{VW} \cong \overline{XW}$	CPCTC