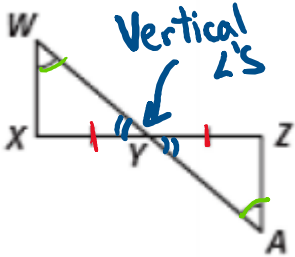


Complete the following proofs.

1.

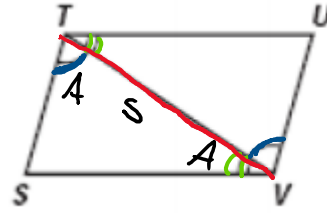
Given that $\angle YWX \cong \angle YAZ$ and $\overline{XY} \cong \overline{ZY}$
 Prove that $\triangle XWY \cong \triangle ZAY$



Statement	Reason
$\angle YWX \cong \angle YAZ$	Given
$\overline{XY} \cong \overline{ZY}$	Given
$\angle WYX \cong \angle AYZ$	Vert. Angles Thm.
$\triangle XWY \cong \triangle ZAY$	AAS

2.

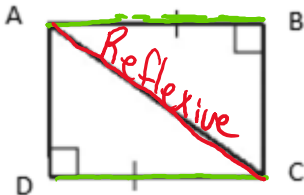
Given that $\angle STV \cong \angle UVT$ and $\angle TVS \cong \angle VTU$
 Prove that $\triangle STV \cong \triangle UVT$



Statement	Reason
$\angle UVT \cong \angle STV$	Given
$\angle UTV \cong \angle SVT$	Given
$\overline{TV} = \overline{VT}$	Reflexive
$\triangle UTV \cong \triangle SVT$	ASA

2.

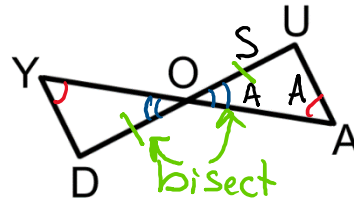
Given that $\angle ABC \cong \angle CDA$ and $\overline{AB} \cong \overline{CD}$
 Prove that $\triangle ABC \cong \triangle CDA$



Statement	Reason
$\overline{AB} \cong \overline{CD}$	Given
$\overline{AC} \cong \overline{CA}$	Given
$\triangle ABC \cong \triangle CDA$	HL

4.

Given that \overline{YA} bisects \overline{UD} and $\angle Y \cong \angle A$
 Prove that $\triangle YOD \cong \triangle AOU$

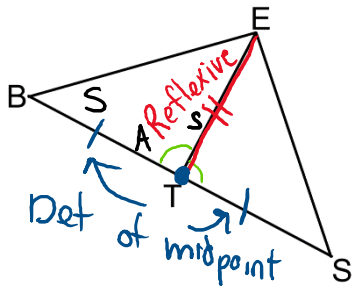


Statement	Reason
\overline{YA} bisects \overline{UD}	Given
$\angle Y \cong \angle A$	Given
$\angle YOD \cong \angle AOU$	Vertical Angles Thm
$\overline{DO} = \overline{OU}$	Def. of Bisect
$\overline{DO} \cong \overline{OU}$	Def. of \cong
$\triangle YOD \cong \triangle AOU$	AAS

Complete the following proofs.

5. Given: $\angle ETS \cong \angle ETB$ and T is the midpoint of \overline{BS}

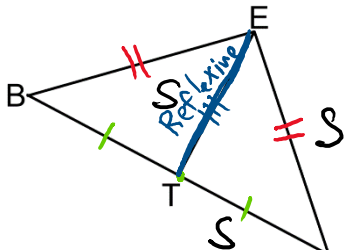
Prove: $\overline{BE} \cong \overline{SE}$



Statement	Reason
$\angle ETS \cong \angle ETB$	Given
T is the midpoint	Given
$\overline{BT} \cong \overline{ST}$	Def. of midpoint
$\overline{ET} \cong \overline{ET}$	Reflexive Prop.
$\triangle BET \cong \triangle SET$	SAS
$\overline{BE} \cong \overline{SE}$	CPCTC

7. Given: \overline{ET} bisects \overline{SB} and $\overline{ES} \cong \overline{EB}$

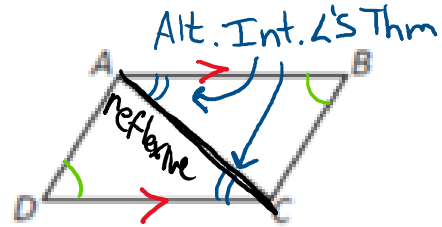
Prove: $\angle EBT \cong \angle EST$



Statement	Reason
\overline{ET} bisects \overline{SB}	Given
$\overline{ES} \cong \overline{EB}$	Given
$\overline{ET} \cong \overline{ET}$	Reflexive Prop.
$m\overline{BT} = m\overline{ST}$	Def. of Bisect.
$\overline{BT} \cong \overline{ST}$	Def. of \cong
$\triangle BET \cong \triangle SET$	SSS
$\angle EBT \cong \angle EST$	CPCTC

6. Given: $\angle ABC \cong \angle CDA$ and $\overline{AB} \parallel \overline{CD}$

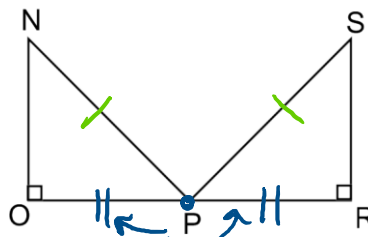
Prove: $\overline{BC} \cong \overline{DA}$



Statement	Reason
$\angle ABC \cong \angle CDA$	Given
$\overline{AB} \parallel \overline{CD}$	Given
$\overline{AC} \cong \overline{CA}$	Reflexive Prop.
$\angle BAC \cong \angle DCA$	Alt. Int. \angle 's Thm.
$\triangle ADC \cong \triangle CBA$	AAS
$\overline{BC} \cong \overline{DA}$	CPCTC

8. Given: $\overline{NP} \cong \overline{SP}$ and P is the midpoint of \overline{OR}

Prove: $\angle OPN \cong \angle RPS$



Statement	Reason
$\overline{NP} \cong \overline{SP}$	Given
P is the midpoint of \overline{OR}	Given
$\overline{OP} \cong \overline{RP}$	Def. of midpoint
$\triangle NOP \cong \triangle SRP$	HL
$\angle OPN \cong \angle RPS$	CPCTC