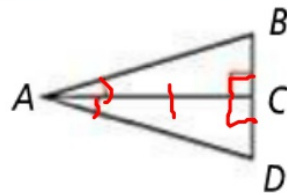


11. Given: $\angle BAC \cong \angle DAC$,

Proof

$$\overline{AC} \perp \overline{BD}$$

Prove: $\triangle ABC \cong \triangle ADC$

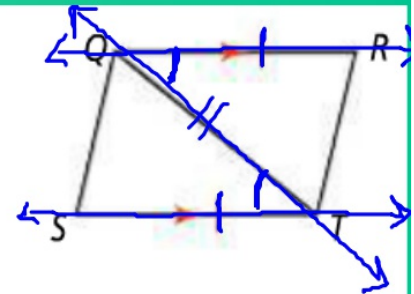


12. Given: $\overline{QR} \cong \overline{TS}$,

Proof

$$\overline{QR} \parallel \overline{TS}$$

Prove: $\triangle QRT \cong \triangle TSQ$

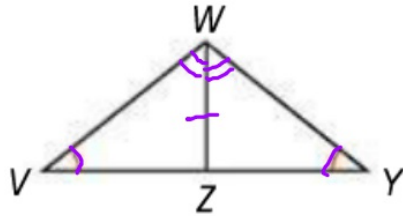


Statements	Reasons
1. $\angle BAC \cong \angle DAC$	GIVEN
2. $\overline{AC} \perp \overline{BD}$	GIVEN
3. $\angle BCA \cong \angle DCA$	Def. of Right Angles
4. $\overline{AC} \cong \overline{AC}$	Reflexive Prop
5. $\triangle ABC \cong \triangle ADC$	ASA

Statements	Reasons
1. $\overline{QR} \cong \overline{TS}$	GIVEN
2. $\overline{QR} \parallel \overline{TS}$	GIVEN
3. $\angle RQT \cong \angle STQ$	Alt. Interior \angle 's
4. $\overline{QT} \cong \overline{QT}$	Reflexive Prop.
5. $\triangle QRT \cong \triangle TSQ$	SAS

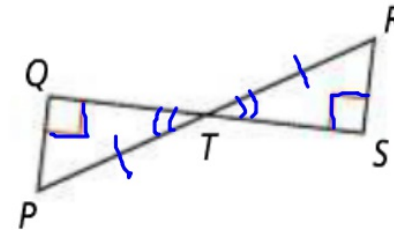
14. Given: $\angle V \cong \angle Y$,
Proof \overline{WZ} bisects $\angle VWY$

Prove: $\triangle VWZ \cong \triangle YWZ$



15. Given: $\overline{PQ} \perp \overline{QS}$, $\overline{RS} \perp \overline{SQ}$,
Proof T is the midpoint of \overline{PR}

Prove: $\triangle PQT \cong \triangle RST$



Statements	Reasons	Statements	Reasons
1. $\angle V \cong \angle Y$	GIVEN	1. $\overline{PQ} \perp \overline{QS}$	GIVEN
2. \overline{WZ} bisects $\angle VWY$	GIVEN	2. $\overline{RS} \perp \overline{SQ}$	GIVEN
3. $\angle VWZ \cong \angle YWZ$	Def. of Angle Bisector	3. T is the midpoint of \overline{PR}	GIVEN
4. $\overline{WZ} \cong \overline{WZ}$	Reflexive Prop.	4. $\angle PQT \cong \angle RST$	Def. of Right \angle 's
5. $\triangle VWZ \cong \triangle YWZ$	AAS	5. $\overline{PT} \cong \overline{RT}$	Def. of midpoint
		6. $\angle QTP \cong \angle STR$	Vertical Angles
		7. $\triangle PQT \cong \triangle RST$	AAS