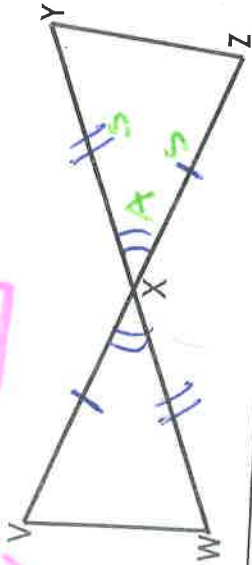


CPTC PROOF #1

Given: X is the midpoint of \overline{VZ} , X is the midpoint of \overline{WY}

Prove: $\angle XVW \cong \angle XZY$



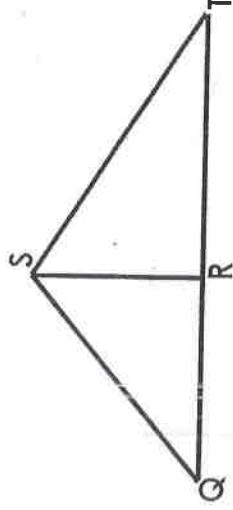
Statements	Reasons
X is midpoint \overline{VZ}	Given
$\overline{VX} \cong \overline{XZ}$	Def. Midpoint
X is midpoint \overline{WY}	Given
$\overline{WX} \cong \overline{XY}$	Def. Midpoint
$\angle XVX \cong \angle XZY$	Vertical
$\triangle VWX \cong \triangle ZYX$	SAS
$\angle XVW \cong \angle XZY$	CPTC

<input checked="" type="checkbox"/>	Given	<input checked="" type="checkbox"/>	Def. of Midpoint
<input checked="" type="checkbox"/>	$\overline{VX} \cong \overline{XZ}$	<input checked="" type="checkbox"/>	Def. of Midpoint
<input checked="" type="checkbox"/>	X is the midpoint of \overline{VZ}	<input checked="" type="checkbox"/>	$\angle XVW \cong \angle XZY$
<input checked="" type="checkbox"/>	$\overline{WX} \cong \overline{XY}$	<input checked="" type="checkbox"/>	$\angle WXV \cong \angle XYZ$
<input checked="" type="checkbox"/>	$\triangle VWX \cong \triangle ZYX$	<input checked="" type="checkbox"/>	Vertical Angles
<input checked="" type="checkbox"/>	X is the midpoint of \overline{WY}	<input checked="" type="checkbox"/>	CPTC
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	SAS

PCTC PROOF #2

Given: $\overline{QS} \cong \overline{TS}$, R is the midpoint of \overline{QT}

Prove: $\angle RQS \cong \angle RTS$



Statements	Reasons

<input type="checkbox"/>	$\overline{RS} = \overline{RS}$	<input type="checkbox"/>	Reflexive Property
<input type="checkbox"/>	$\overline{QS} \cong \overline{TS}$	<input type="checkbox"/>	Given
<input type="checkbox"/>	$\angle RQS \cong \angle RTS$	<input type="checkbox"/>	Given
<input type="checkbox"/>	$\overline{QR} \cong \overline{TR}$	<input type="checkbox"/>	CPTC
<input type="checkbox"/>	R is the midpoint of \overline{QT}	<input type="checkbox"/>	$\triangle QRS \cong \triangle TRS$