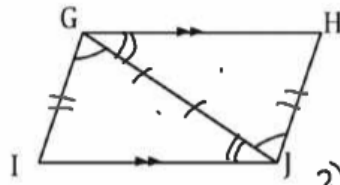


**Using Congruent Triangles**

CPCTC

Corresponding Parts of Congruent Triangles are Congruent

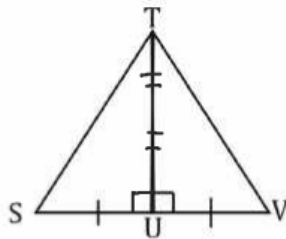
Given:  $\overline{GH} \parallel \overline{IJ}$ ,  $\angle IGJ \cong \angle HJG$



Prove:  $\overline{IG} \cong \overline{HJ}$

Statement	Reason
1) $\overline{GH} \parallel \overline{IJ}$ $\angle IGJ \cong \angle HJG$	1) Given
2) $\angle HGJ \cong \angle IJG$	2) Alternate Interior $\angle$ 's
3) $\overline{GJ} \cong \overline{GJ}$	3) Reflexive prop.
4) $\triangle GJH \cong \triangle JGI$	4) ASA
5) $\overline{IG} \cong \overline{HJ}$	5) CPCTC

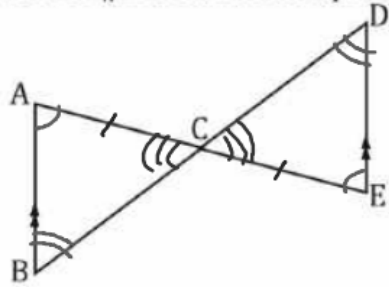
Given:  $\overline{SU} \cong \overline{UV}$ ,  $\overline{TU} \perp \overline{SV}$



Prove:  $\overline{ST} \cong \overline{VT}$

Statement	Reason
1) $\overline{SU} \cong \overline{UV}$ $\overline{TU} \perp \overline{SV}$	1) Given
2) $\overline{TU} \cong \overline{TU}$	2) Reflexive prop.
3) $\angle TUS \cong \angle TVU$	3) All right $\angle$ 's $\cong$
4) $\triangle STU \cong \triangle VTU$	4) SAS
5) $\overline{ST} \cong \overline{VT}$	5) CPCTC

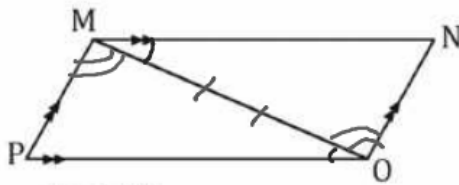
Given:  $\overline{AB} \parallel \overline{DE}$ , C is the midpoint of  $\overline{AE}$



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

Statement	Reason
1) $\overline{AB} \parallel \overline{DE}$ C is midpt $\overline{AE}$	1) Given
2) $\overline{AC} \cong \overline{EC}$	2) Def of midpt

Given:  $PM \parallel NO$ ,  $MN \parallel PO$ ,



Prove:  $PM \cong ON$