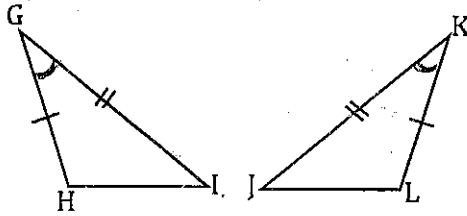


Fill in the missing information in each proof.

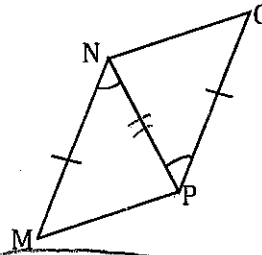
4. Given: $\overline{GH} \cong \overline{KL}$, $\angle G \cong \angle K$, and $\overline{GI} \cong \overline{KJ}$



Prove: $\overline{HI} \cong \overline{LJ}$

Statements	Reasons
1. $\overline{GH} \cong \overline{KL}$	1. Given
2. $\angle G \cong \angle K$	2. Given
3. $\overline{GI} \cong \overline{KJ}$	3. Given
4. $\triangle GHI \cong \triangle KJL$	4. SAS
5. $\overline{HI} \cong \overline{LJ}$	5. CPCTC

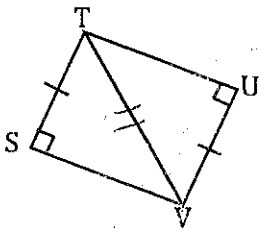
5. Given: $\angle MNP \cong \angle OPN$, and $\overline{MN} \cong \overline{OP}$



Prove: $\overline{MP} \cong \overline{NO}$

Statements	Reasons
1. $\angle MNP \cong \angle OPN$	1. Given
2. $\overline{MN} \cong \overline{OP}$	2. Given
3. $\overline{NP} \cong \overline{NP}$	3. Reflexive Prop. of \cong
4. $\triangle MNP \cong \triangle OPN$	4. SAS
5. $\overline{MP} \cong \overline{NO}$	5. CPCTC

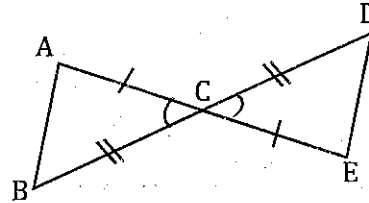
6. Given: $\overline{ST} \cong \overline{VU}$



Prove: $\angle SVT \cong \angle UTV$

Statements	Reasons
1. $\overline{ST} \cong \overline{VU}$	1. Given
2. $\overline{TV} \cong \overline{TV}$	2. Reflexive Property
3. $\triangle TSV \cong \triangle VUT$	3. HL
4. $\angle SVT \cong \angle UTV$	4. CPCTC

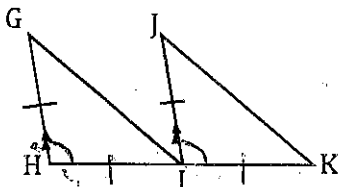
7. Given: $\overline{AC} \cong \overline{CE}$, $\overline{DC} \cong \overline{BC}$



Prove: $\angle B \cong \angle D$

Statements	Reasons
1. $\overline{AC} \cong \overline{CE}$	1. Given
2. $\overline{DC} \cong \overline{BC}$	2. Given
3. $\angle ACB \cong \angle DCE$	3. Vertical \angle s are \cong
4. $\triangle ABC \cong \triangle CDE$	4. SAS
5. $\angle B \cong \angle D$	5. CPCTC

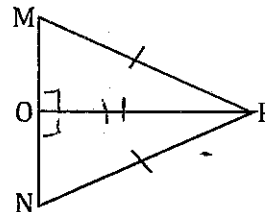
8. Given: $\overline{GH} \parallel \overline{JI}$, I is the midpoint of \overline{HK} and $\overline{GH} \cong \overline{JI}$



Prove: $\angle G \cong \angle J$

Statements	Reasons
1. $\overline{GH} \parallel \overline{JI}$	1. Given
2. I is the midpoint of \overline{HK}	2. Given
3. $\overline{GH} \cong \overline{JI}$	3. Given
4. $\overline{HI} \cong \overline{IK}$	4. Defn. of midpt
5. $\angle H \cong \angle JIK$	5. Corresponding
6. $\triangle GHI \cong \triangle JIK$	6. SAS
7. $\angle G \cong \angle J$	7. CPCTC

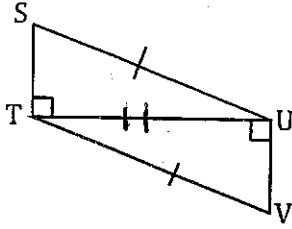
9. Given: $\overline{MP} \cong \overline{NP}$, $\overline{MN} \perp \overline{OP}$



Prove: $\overline{MO} \cong \overline{NO}$

Statements	Reasons
1. $\overline{MP} \cong \overline{NP}$	1. Given
2. $\overline{MN} \perp \overline{OP}$	2. Given
3. $\overline{OP} \cong \overline{OP}$	3. Reflexive Prop. of \cong
4. $\triangle MOP \cong \triangle NOP$	4. HL
5. $\overline{MO} \cong \overline{NO}$	5. CPCTC

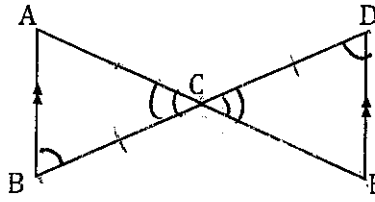
10. Given: $\overline{SU} \cong \overline{VT}$



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

Statements	Reasons
1. $\overline{SU} \cong \overline{VT}$	1. Given
2. $\overline{TU} \cong \overline{TU}$	2. Reflexive Prop.
3. $\triangle UTU \cong \triangle STU$	3. HL
4. $\overline{ST} \cong \overline{UV}$	4. CPCTC

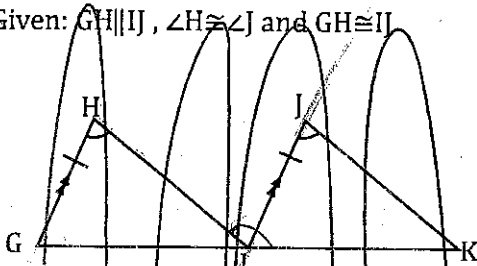
11. Given: $\overline{AB} \parallel \overline{DE}$, \overline{AE} bisects \overline{BD}



Prove: $\overline{AC} \cong \overline{EC}$

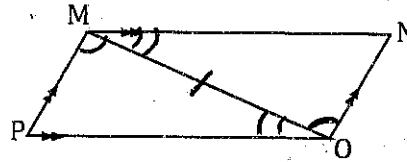
Statements	Reasons
1. $\overline{AB} \parallel \overline{DE}$	1. Given
2. \overline{AE} bisects \overline{BD}	2. Given
3. $\angle ABC \cong \angle EDC$	3. Alt. Int. \angle s are \cong
4. $\angle ACB \cong \angle DCE$	4. Vertical \angle s are \cong
5. $\overline{BC} \cong \overline{CD}$	5. Def of Bisect
6. $\triangle ABC \cong \triangle EDC$	6. ASA
7. $\overline{AC} \cong \overline{EC}$	7. CPCTC

12. Given: $\overline{GH} \parallel \overline{IJ}$, $\angle H \cong \angle J$ and $\overline{GH} \cong \overline{IJ}$



Prove: $\angle GIH \cong \angle IKJ$

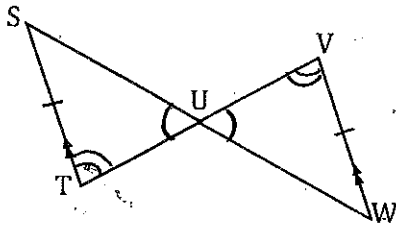
Statements	Reasons
1. $\overline{GH} \parallel \overline{IJ}$	1. Given
2. $\angle H \cong \angle J$	2. Given
3. $\overline{GH} \cong \overline{IJ}$	3. Given
4.	4. Alternate Interior \angle s are \cong
5.	5.
6. $\angle GIH \cong \angle IKJ$	6. CPCTC



Prove: $\overline{PM} \cong \overline{ON}$

Statements	Reasons
1. $\overline{PM} \parallel \overline{ON}$	1. Given
2. $\overline{MN} \parallel \overline{PO}$	2. Given
3. $\angle PMO \cong \angle NOM$	3. Alt. Int. \angle s are \cong
4. $\angle POM \cong \angle ONM$	4. Alternate Interior
5. $\overline{MO} \cong \overline{MO}$	5. Reflexive Prop.
6. $\triangle PMO \cong \triangle ONM$	6. ASA
7. $\overline{PM} \cong \overline{ON}$	7. CPCTC

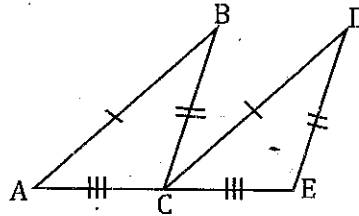
14. Given: $\overline{ST} \parallel \overline{WV}$, and $\overline{ST} \cong \overline{WV}$



Prove: $\overline{SU} \cong \overline{WU}$

Statements	Reasons
1. $\overline{ST} \parallel \overline{WV}$	1. Given
2. $\overline{ST} \cong \overline{WV}$	2. Given
3. $\angle T \cong \angle V$	3. Alternate Interior
4. $\angle SUT \cong \angle WUV$	4. Vertical \angle s are \cong
5. $\triangle SUT \cong \triangle WUV$	5. AAS
6. $\overline{SU} \cong \overline{WU}$	6. CPCTC

15. Given: $\overline{AB} \cong \overline{CD}$, $\overline{BC} \cong \overline{DE}$, and $\overline{AC} \cong \overline{CE}$



Prove: $\angle A \cong \angle DCE$

Statements	Reasons
1. $\overline{AB} \cong \overline{CD}$	1. Given
2. $\overline{BC} \cong \overline{DE}$	2. Given
3. $\overline{AC} \cong \overline{CE}$	3. Given
4. $\triangle ABC \cong \triangle CDE$	4. SSS
5. $\angle A \cong \angle DCE$	5. CPCTC