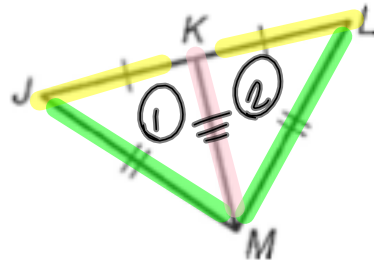


1) Given:

Prove:  $\triangle JKM \cong \triangle LKM$



Statements	Reasons
1. $\overline{JK} \cong \overline{LK}$ and $\overline{JM} \cong \overline{LM}$	1. Given
2. $\overline{KM} \cong \overline{KM}$	2. Reflexive Property
3. $\triangle JKM \cong \triangle LKM$	3. SSS

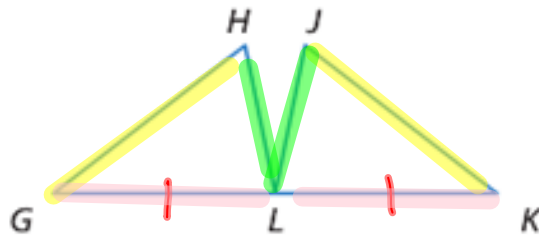


2) Given:

L is the midpoint of

Prove:  $\triangle GHL \cong \triangle KJL$

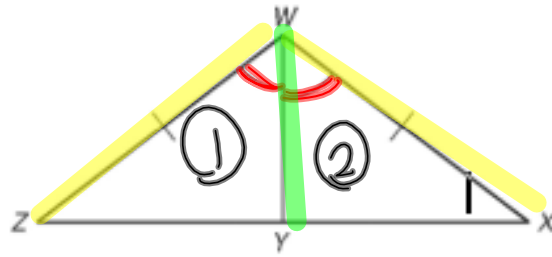
and



Statements	Reasons
1. $\overline{HG} \cong \overline{JK}$ , $\overline{HL} \cong \overline{JL}$	1. Given
2. L is the midpoint of $\overline{GK}$	2. Given
3. $\overline{GL} \cong \overline{KL}$	3. Def. of midpoint
4. $\triangle GHL \cong \triangle KJL$	4. SSS

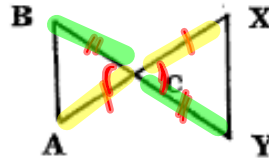


3) Given:  $\overline{ZW} \cong \overline{XW}$  and  
 Prove:  $\triangle WXY \cong \triangle WZY$



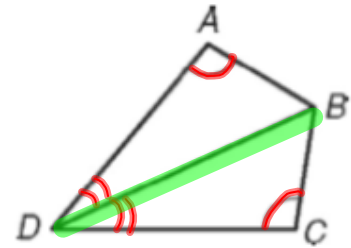
Statements	Reasons
1. $\overline{ZW} \cong \overline{XW}$ and $\angle ZWY \cong \angle XWY$	1. Given
2. $\overline{WY} \cong \overline{WY}$	2. reflexive Property
3. $\triangle WXY \cong \triangle WZY$	3. SAS

4) Given: C is the midpoint of  $\overline{AX}$  and  $\overline{BY}$   
 Prove:  $\triangle ABC \cong \triangle XYC$



Statements	Reasons
1. C is the midpoint of $\overline{AX}$ and $\overline{BY}$	1. Given
2. $\overline{AC} \cong \overline{XC}$ & $\overline{BC} \cong \overline{YC}$	2. Def. of midpoint
3. $\angle BCA \cong \angle YCA$	3. vertical $\angle$ s
4. $\triangle ABC \cong \triangle XYC$	4. SAS

5) Given:  $\angle A \cong \angle C$  and  $\overline{BD}$  is the angle bisector of  $\angle ADC$   
 Prove:  $\triangle ABD \cong \triangle CBD$

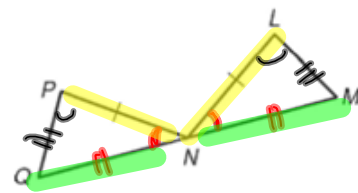


Statements	Reasons
1. $\angle A \cong \angle C$	1. Given
2. $\overline{BD}$ is the angle bisector of $\angle ADC$	2. Given
3. $\angle ADB \cong \angle CDB$	3. Def. of bisect
4. $\overline{DB} \cong \overline{DB}$	4. Reflexive prop.
5. $\triangle ABD \cong \triangle CBD$	5. AAS



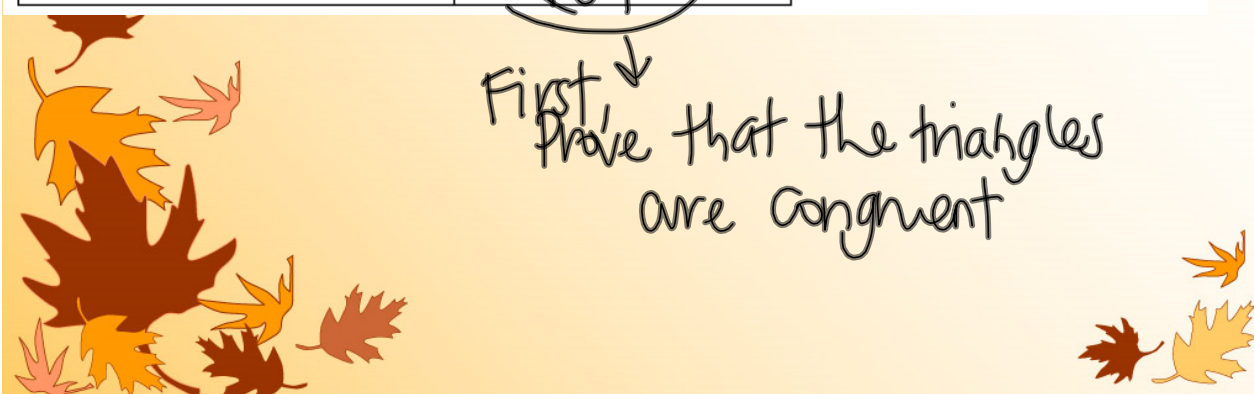
CPCTC - Corresponding parts of congruent triangles are congruent.

6) Given:  $\angle PNQ \cong \angle LNM$ ,  $\overline{PN} \cong \overline{LN}$ , and N is the midpoint of  $\overline{QM}$   
 Prove:  $\overline{PQ} \cong \overline{LM}$



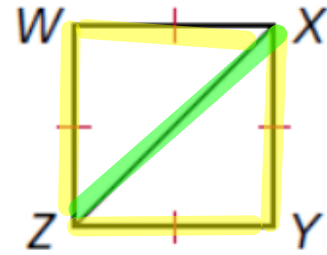
Statements	Reasons
1. All that stuff up there	1. Given
2. $\overline{QN} \cong \overline{MN}$	2. Def. of midpoint
3. $\triangle PNQ \cong \triangle LNM$	3. SAS
4. $\overline{PQ} \cong \overline{LM}$	4. CPCTC

First,  $\downarrow$   
 Prove that the triangles  
 are congruent



7) Given:  $\overline{WX} \cong \overline{XY} \cong \overline{YZ} \cong \overline{ZW}$   
 Prove:  $\angle W \cong \angle Y$

Statements	Reasons
1. $\overline{WX} \cong \overline{XY} \cong \overline{YZ} \cong \overline{ZW}$	1. Given
2. $\overline{XZ} \cong \overline{XZ}$	2. Reflexive prop.
3. $\triangle WZX \cong \triangle YZX$	3. SSS
4. $\angle W \cong \angle Y$	4. CPCTC



8) Given:  $\overline{UX} \cong \overline{UV}$ ;  $\triangle UXW$  and  $\triangle UVW$  are right triangles  
 Prove:  $\angle X \cong \angle V$

Statements	Reasons
1. $\overline{UX} \cong \overline{UV}$	1. Given
2. $\triangle UXW$ and $\triangle UVW$ are rt. triangles	2. Given
3. $\overline{UW} \cong \overline{UW}$	3. Reflexive property
4. $\triangle XUW \cong \triangle VUW$	4. HL
5. $\angle X \cong \angle V$	5. CPCTC

