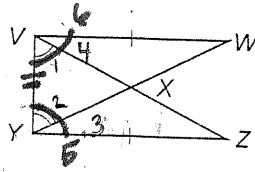


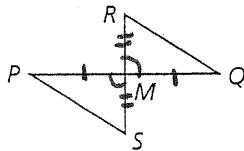
- Given: $\angle ZVY \cong \angle WYV$,
 (4) $\angle ZVW \cong \angle WYZ$, (3)
 $\overline{VW} \cong \overline{YZ}$
 Prove: $\triangle ZVY \cong \triangle WYV$



- S
1. $\angle 1 \cong \angle 2$
 2. $m\angle 1 = m\angle 2$
 3. $\angle 3 \cong \angle 4$
 4. $m\angle 3 = m\angle 4$
 5. $m\angle 1 + m\angle 4 = m\angle 6$
 6. $m\angle 2 + m\angle 3 = m\angle 5$
 7. $m\angle 1 + m\angle 4 = m\angle 5$
 8. $m\angle 6 = m\angle 5$
 9. $\angle 6 \cong \angle 5$
 10. $\overline{VY} \cong \overline{VY}$
 11. $\overline{VW} \cong \overline{YZ}$
 12. $\triangle ZVY \cong \triangle WYV$

- J
1. Given
 2. Def of \cong
 3. Given
 4. Def of \cong
 5. Ang. add Post
 6. Ang add Post.
 7. Subst. Prop. of =
 8. Subst. Prop. of =
 9. Def of \cong
 10. Reflex. Prop of \cong
 11. Given
 12. SAS.

Given: M is the midpoint of \overline{PQ} and \overline{RS} .
 Prove: $\overline{QR} \cong \overline{PS}$



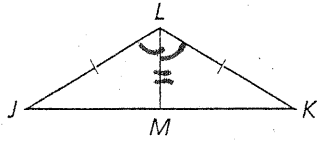
- S
1. M is the midpt of \overline{PQ} & \overline{RS}
 2. $\overline{PM} \cong \overline{MQ}$
 3. $\overline{RM} \cong \overline{MS}$
 4. $\angle RMQ \cong \angle SMP$ are V.A.
 5. $\angle RMQ \cong \angle SMP$
 6. $\triangle SMP \cong \triangle RMQ$
 7. $\overline{QR} \cong \overline{PS}$

- J
1. Given
 2. Def of midpt
 3. Def of midpt
 4. Def of V.A.
 5. V.A. Thm
 6. SAS
 7. CPCTC

Given: \overline{LM} bisects $\angle JLK$, $\overline{JL} \cong \overline{KL}$
 Prove: M is the midpoint of \overline{JK} .

Prove $\overline{JM} \cong \overline{MK}$

Then show M is
 the midpt.



S

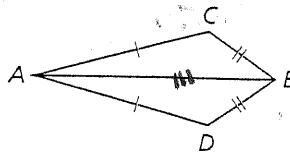
J

1. \overline{LM} bisects $\angle JLK$
2. $\angle JLM \cong \angle KLM$
3. $\overline{JL} \cong \overline{KL}$
4. $\overline{LM} \cong \overline{LM}$
5. $\triangle JLM \cong \triangle KLM$
6. $\overline{JM} \cong \overline{MK}$
7. M is the midpt of \overline{JK}

1. Given
2. Def of \angle bisector
3. Given
4. Reflex Prop of \cong
5. SAS
6. CPCTC
7. Def. of midpt

Given: $\overline{AC} \cong \overline{AD}$, $\overline{CB} \cong \overline{DB}$
 Prove: \overline{AB} bisects $\angle CAD$.

Prove $\triangle s \cong$, then show
 $\angle CAB \cong \angle DAB$



S

J

1. $\overline{AC} \cong \overline{AD}$
2. $\overline{CB} \cong \overline{DB}$
3. $\overline{AB} \cong \overline{AB}$
4. $\triangle ABC \cong \triangle ABD$
5. $\angle CAB \cong \angle DAB$
6. \overline{AB} bisects $\angle CAD$.

1. Given
2. Given
3. Reflex. Prop of \cong
4. SSS
5. CPCTC
6. Def of \angle bisector