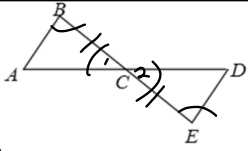


8. Given: $\angle B \cong \angle E$
 AD bisects BE

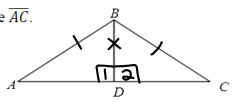


Prove: $\overline{AC} \cong \overline{DC}$

Statement	Reason
1) $\angle B \cong \angle E$	1) Given
2) \overline{AD} bisects \overline{BE}	2) Given
3) $\overline{BC} \cong \overline{EC}$	3) Def. of a seg. bisector
4) $\angle 1 \cong \angle 2$	4) Vertical \angle 's are \cong
5) $\triangle ABC \cong \triangle DEC$	5) ASA \cong ASA
6) $\overline{AC} \cong \overline{DC}$	6) CPCTC

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9. Given: $\triangle ABC$ with altitude \overline{BD} drawn to side \overline{AC} .
 $\overline{AB} \cong \overline{CB}$

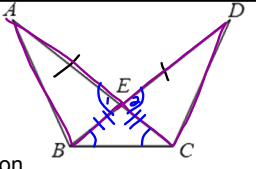


Prove: $\triangle ABD \cong \triangle CBD$

Statement	Reason
1) $\triangle ABC$ with altitude \overline{BD} drawn to side \overline{AC}	1) Given
2) $\overline{AB} \cong \overline{CB}$	2) Given
3) $\angle 1$ & $\angle 2$ are rt. \angle 's	3) Def. of an altitude
4) $\angle 1 \cong \angle 2$	4) All rt. \angle 's are \cong
5) $\overline{BD} \cong \overline{BD}$	5) Reflexive Property
6) $\triangle ABD \cong \triangle CBD$	6) Right \triangle 's are rt \triangle 's contain 1 R + 2 \cong sides
7) $\triangle ABD \cong \triangle CBD$	7) HL \cong HL

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10. Given: $\overline{DE} \cong \overline{AE}$
 $\angle EBC \cong \angle ECB$

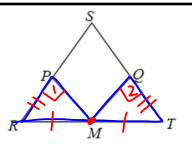


Prove: $\triangle AEB \cong \triangle DEC$

Statement	Reason
1) $\overline{DE} \cong \overline{AE}$	1) Given
2) $\angle EBC \cong \angle ECB$	2) Given
3) $\overline{BE} \cong \overline{EC}$	3) Sides across from \cong \angle 's are also \cong if $\triangle \rightarrow$
4) $\angle 1 \cong \angle 2$	4) Vertical \angle 's are \cong
5) $\triangle AEB \cong \triangle DEC$	5) SAS \cong SAS

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11. Given: $\overline{MP} \perp \overline{RS}$, $\overline{MQ} \perp \overline{ST}$
 M is the midpoint of \overline{RT}
 $\overline{RP} \cong \overline{TQ}$

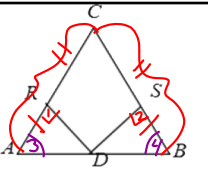


Prove: $\triangle RPM \cong \triangle TQM$

Statement	Reason
1) $\overline{MP} \perp \overline{RS}$, $\overline{MQ} \perp \overline{ST}$	1) Given
2) M is the midpoint of \overline{RT}	2) Given
3) $\overline{RP} \cong \overline{TQ}$	3) Given
4) $\angle 1$ & $\angle 2$ are rt. \angle 's	4) \perp lines form rt. \angle 's
5) $\angle 1 \cong \angle 2$	5) All rt. \angle 's are \cong
6) $\overline{RM} \cong \overline{MT}$	6) Def. of a midpoint
7) $\triangle RPM \cong \triangle TQM$	7) Rt \triangle 's contain are v.ght \triangle 's 1 R + 2 \cong sides
8) $\triangle RPM \cong \triangle TQM$	8) HL \cong HL

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12. Given: $\overline{CA} \cong \overline{CB}$, $\overline{AR} \cong \overline{BS}$
 $\overline{DR} \perp \overline{AC}$, $\overline{DS} \perp \overline{BC}$

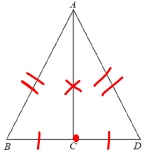


Prove: $\overline{DR} \cong \overline{DS}$

Statement	Reason
1) $\overline{CA} \cong \overline{CB}$, $\overline{AR} \cong \overline{BS}$	1) Given
2) $\overline{DR} \perp \overline{AC}$, $\overline{DS} \perp \overline{BC}$	2) Given
3) $\angle 1$ & $\angle 2$ are rt. \angle 's	3) \perp lines form rt. \angle 's
4) $\angle 1 \cong \angle 2$	4) All rt. \angle 's are \cong
5) $\angle 3 \cong \angle 4$	5) \angle 's across from \cong sides are also \cong if $\triangle \rightarrow$
6) $\triangle DAR \cong \triangle DBS$	6) ASA \cong ASA
7) $\overline{DR} \cong \overline{DS}$	7) CPCTC

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13. Given: $\triangle BAD$ is an isosceles triangle with vertex A
 \overline{AC} is a median



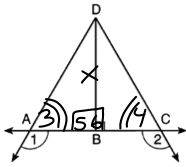
Prove: $\triangle ACB \cong \triangle ACD$

Statement	Reason
1) $\triangle BAD$ is an isosceles triangle with vertex A	1) Given
2) \overline{AC} is a median	2) Given
3) C is the midpoint of \overline{BD}	3) Def. of a median
4) $\overline{BC} \cong \overline{DC}$	4) Def. of a midpoint
5) $\overline{BA} \cong \overline{AD}$	5) An isoc. \triangle has 2 sides \cong
6) $\overline{AC} \cong \overline{AC}$	6) Reflexive Property
7) $\triangle ACB \cong \triangle ACD$	7) SSS \cong SSS

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14. Given: $\angle 1 \cong \angle 2$
 $\overline{DB} \perp \overline{AC}$

Prove: $\triangle DBA \cong \triangle DBC$



Statement	Reason
1) $\angle 1 \cong \angle 2$	1) Given
2) $\overline{DB} \perp \overline{AC}$	2) Given
3) $\angle 1$ & $\angle 3$ are Suppl., $\angle 2$ & $\angle 4$ are Suppl.	3) Linear pairs are Supplementary
4) $\angle 1 \cong \angle 3$	4) Supplements of $\cong \angle$ s are \cong
5) $\angle 2 \cong \angle 4$ are Rt \angle s	5) Lines form Rt \angle s
6) $\angle 3 \cong \angle 4$	6) all rt \angle s are \cong
7) $\overline{DB} \cong \overline{DB}$	7) Reflexive Prop.
8) $\triangle DBA \cong \triangle DBC$	8) aas \cong aas

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