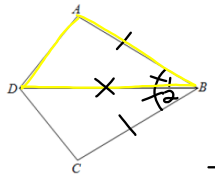
7) Given: $\overline{AB} \cong \overline{CB}$,

$\overline{DB}$ bisects $\angle ABC$.

Prove: $\Delta ABD \cong \Delta CBD$



Statement	Reason
1) $\overline{AB} \cong \overline{CB}$	1) Given
2) $\overline{DB}$ bisects $\angle ABC$	2) Given
3) $\angle 1 \cong \angle 2$	3) Def. of an angle bisctor
4) $\overline{DB} \cong \overline{DB}$	4) Reflexive prop.
5) $\Delta ABD \cong \Delta CBD$	5) $SAS \cong SAS$

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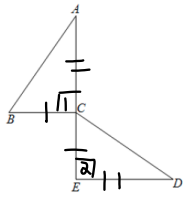
8) Given: $AC \perp BC$, $DE \perp CE$,

$\overline{BC} \cong \overline{CE}$, $\overline{AC} \cong \overline{DE}$

Prove: $\Delta ABC \cong \Delta DCE$



Statement	Reason
1) $\overline{AC} \perp \overline{BC}$	1) Given
2) $\overline{DE} \perp \overline{CE}$	2) Given
3) $\overline{BC} \cong \overline{CE}$	3) Given
4) $\overline{AC} \cong \overline{DE}$	4) Given
5) $\angle 1$ & $\angle 2$ are $rt. \angle's$	5) $\perp$ lines form rt. $\angle$'s
6) $\angle 1 \cong \angle 2$	6) $All\ rt. \angle's\ are \cong$
7) $\Delta ABC \cong \Delta DCE$	7) $SAS \cong SAS$

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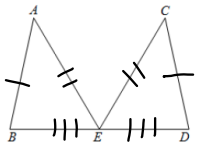
9) Given: E is the midpoint of $\overline{BD}$,

$\overline{AB} \cong \overline{CD}$,

$\overline{AE} \cong \overline{EC}$

Prove: $\Delta AEB \cong \Delta CED$



Statement	Reason
1) E is the midpoint of $\overline{BD}$	1) Given
2) $\overline{AB} \cong \overline{CD}$	2) Given
3) $\overline{AE} \cong \overline{EC}$	3) Given
4) $\overline{BE} \cong \overline{DE}$	4) Def. of a midpt.
5) $\Delta AEB \cong \Delta CED$	5) $SSS \cong SSS$

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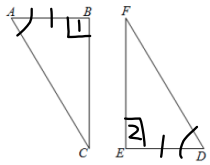
10) Given: $\overline{AB} \cong \overline{ED}$,

$\angle A \cong \angle D$,

$\overline{AB} \perp \overline{BC}$,

$\overline{ED} \perp \overline{FE}$

Prove: $\Delta ABC \cong \Delta DEF$



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Statement	Reason
1) $\overline{AB} \cong \overline{ED}$	1) Given
2) $\angle A \cong \angle D$	2) Given
3) $\overline{AB} \perp \overline{BC}$	3) Given
4) $\overline{ED} \perp \overline{FE}$	4) Given
5) $\angle 1$ & $\angle 2$ are $rt. \angle's$	5) $\perp$ lines form rt. $\angle$'s
6) $\angle 1 \cong \angle 2$	6) $All\ rt. \angle's\ are \cong$
7) $\Delta ABC \cong \Delta DEF$	7) $ASA \cong ASA$

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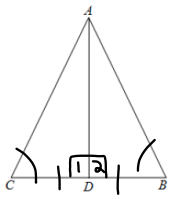
11) Given: $\angle C \cong \angle B$,

$\overline{CD} \cong \overline{DB}$,

$\overline{AD} \perp \overline{CB}$

Prove: $\Delta CAD \cong \Delta BAD$



Statement	Reason
1) $\angle C \cong \angle B$	1) Given
2) $\overline{CD} \cong \overline{DB}$	2) Given
3) $\overline{AD} \perp \overline{CB}$	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) $\Delta CAD \cong \Delta BAD$	6) $ASA \cong ASA$

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