

5-7.2 Isosceles Proofs

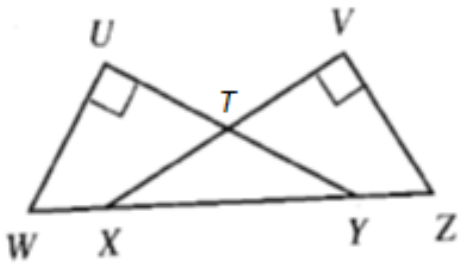
Problem A

Given: $\overline{WU} \cong \overline{VZ}$,

$\overline{WX} \cong \overline{YZ}$

$\angle U$ and $\angle V$ are right angles

Prove: $\triangle TXY$ is isosceles



1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.
11.	11.
12.	12.
13.	13.
14.	14.

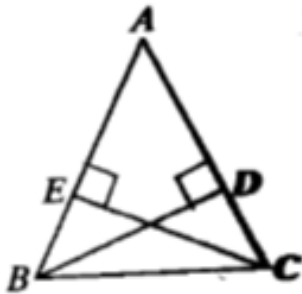
Problem B

Given: $\overline{AE} \perp \overline{EC}$

$\triangle ABC \cong \triangle ACB$

$\overline{AD} \perp \overline{DB}$

Prove: $\overline{AD} \cong \overline{AE}$



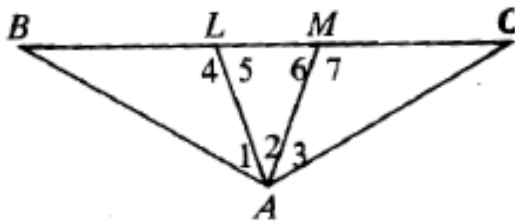
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.
11.	11.
12.	12.
13.	13.

Problem C

Given: $\angle 1 \cong \angle 2 \cong \angle 3$

$\overline{AB} \cong \overline{AC}$

Prove: $\angle 5 \cong \angle 6$



1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.
11.	11.
12.	12.
13.	13.

Problem D

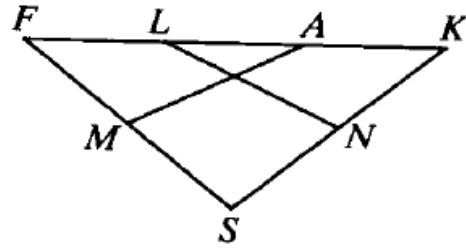
Given: $\overline{FL} \cong \overline{AK}$;

$\overline{SF} \cong \overline{SK}$;

M is the midpoint of \overline{SF} ;

N is the midpoint of \overline{SK} .

Prove: $\overline{AM} \cong \overline{LN}$



1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.
11.	11.
12.	12.
13.	13.
14.	14.