

#4 Given: M is the midpoint of \overline{AB} STATEMENT

REASON

$$\overline{AC} \cong \overline{BC}$$

1.

1. Given

Prove: $\angle A \cong \angle B$

$$2. \overline{AM} \cong \overline{BM}$$

2.

$$3. \overline{AC} \cong \overline{BC}$$

3.

4.

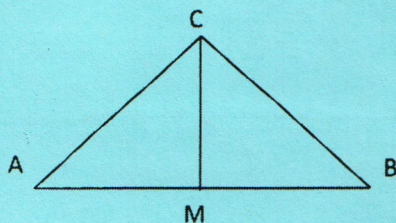
4. Reflexive Property

5.

5. Side Side Side

6.

6.



#5 Given: $\angle Z \cong \angle X$

$$\overline{WZ} \cong \overline{WX}$$

STATEMENT

REASON

$$1. \angle Z \cong \angle X$$

1.

2.

2. Given

3.

3. Reflexive Property

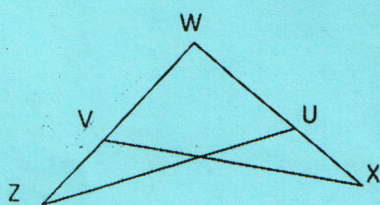
$$4. \triangle WZU \cong \triangle WXV$$

4.

5.

5.

Prove: $\overline{ZU} \cong \overline{XV}$



#6 Given: $\angle 1 \cong \angle 2$

C is the mdpt of \overline{AE}

STATEMENT

REASON

$$1. \angle 1 \cong \angle 2$$

1.

$$2. \angle 3 \cong \angle 4$$

2.

3.

3. Given

$$4. \overline{AC} \cong \overline{EC}$$

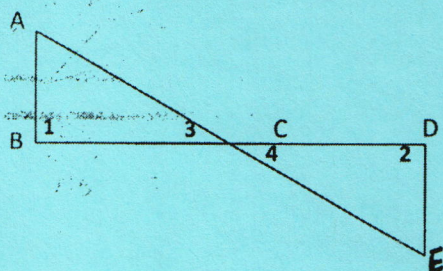
4.

$$5. \triangle ABC \cong \triangle EDC$$

5.

6.

6.

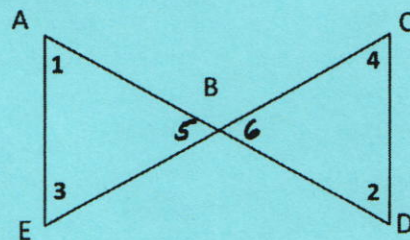


Geometry
WS Proofs with CPCTC

NAME _____
Period _____

9. Given: $\overline{AE} \parallel \overline{CD}$
 $\overline{AB} \cong \overline{BD}$

Prove: $\overline{EB} \cong \overline{CB}$

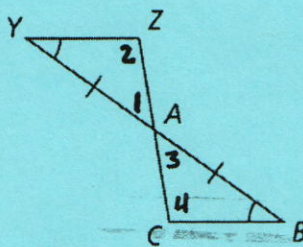


Statement	Reason
1. _____	1. Given
2. $\angle 3 \cong \angle 4$	2. _____
3. _____	3. Vertical Angles
4. $\overline{AB} \cong \overline{BD}$	4. _____
5. $\triangle AEB \cong \triangle DCB$	5. _____
6. _____	6. _____

3. Complete the proof.

Given: $\overline{YA} \cong \overline{BA}$, $\angle B \cong \angle Y$

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



Statements	Reasons
1) $\overline{YA} \cong \overline{BA}$, $\angle B \cong \angle Y$	1) ?
2) _____	2) vertical angles
3) $\triangle YAZ \cong \triangle BAC$	3) ?
4) ?	4) ?

3. Given:

Given: