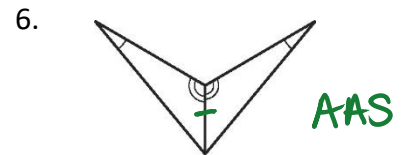
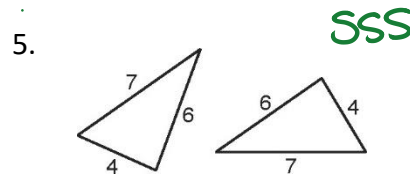
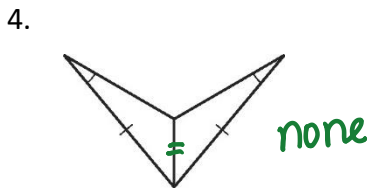
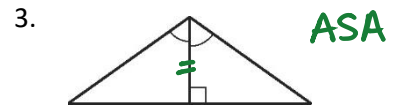
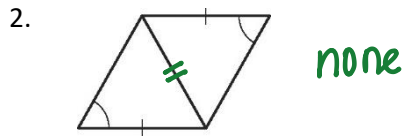
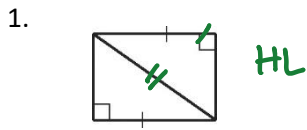


Name: Key

PROOF DAY 2 - HOMEWORK

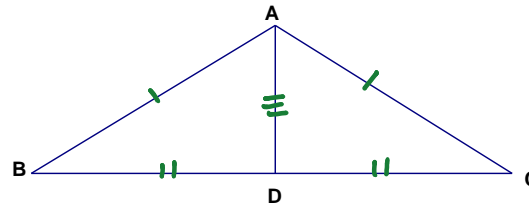
Which postulate, if any, can be used to prove the pair of triangles congruent.



7. Given:
 $\overline{AC} \cong \overline{AB}$
D is the midpoint of \overline{BC}

Prove:

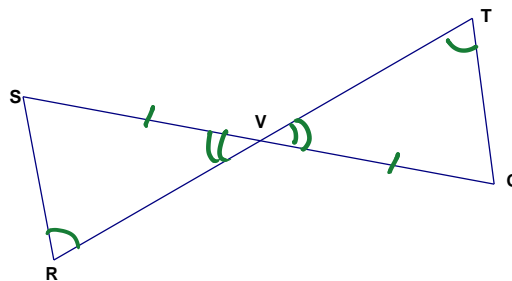
$\triangle ADB \cong \triangle ADC$ by SSS



8. Given:
V is the midpoint of \overline{SQ}
 $\angle R \cong \angle T$

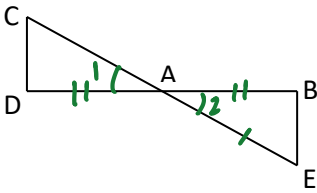
Prove:

$\triangle SVR \cong \triangle QVT$ by AAS



10. Given: $\overline{AC} \cong \overline{AE}$
 A is the midpoint of \overline{DB}

Prove: $\triangle ACD \cong \triangle AEB$



(S) 1. $\overline{AC} \cong \overline{AE}$

2. A is midpt of \overline{DB}

(A) 3. $\angle 1 \cong \angle 2$

(S) 4. $\overline{AD} \cong \overline{AB}$

5. $\triangle ACD \cong \triangle AEB$

1. Given

2. Given

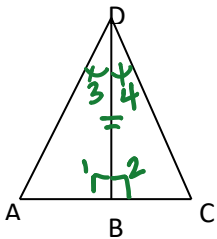
3. def of vertical \angle s

4. def of midpt

5. SAS

11. Given: $\overline{DB} \perp \overline{AC}$
 \overline{DB} bisects $\angle ADC$

Prove: $\triangle DAB \cong \triangle DCB$



1. $\overline{DB} \perp \overline{AC}$

2. \overline{DB} bisects $\angle ADC$

3. $\angle 1, \angle 2$ right \angle s

(A) 4. $\angle 1 \cong \angle 2$

(A) 5. $\angle 3 \cong \angle 4$

(S) 6. $\overline{DB} \cong \overline{DB}$

7. $\triangle DAB \cong \triangle DCB$

1. Given

2. Given

3. if $\perp \rightarrow$ rt \angle s

4. if right \angle s \rightarrow \angle s \cong

5. def of bisects

6. reflexive prop.

7. ASA