

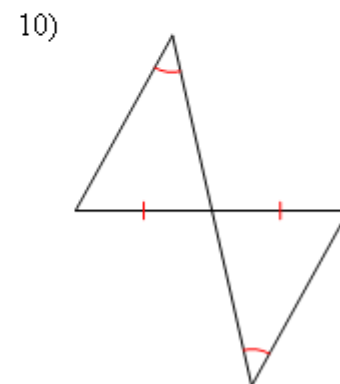
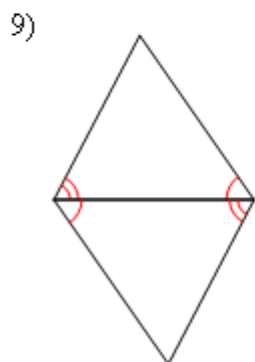
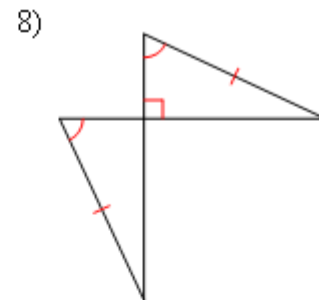
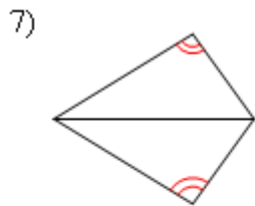
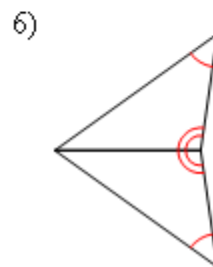
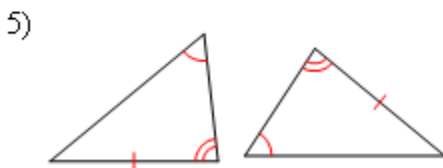
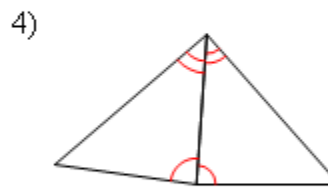
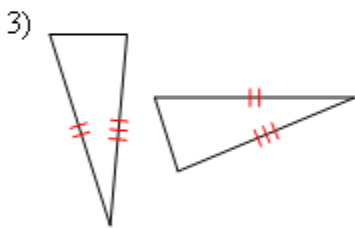
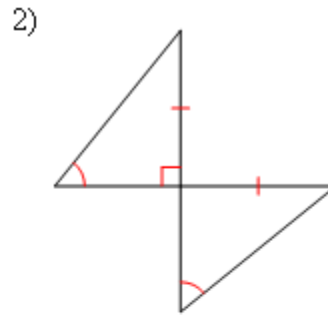
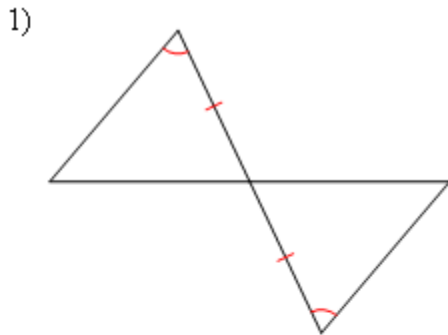
4.3 ASA and AAS

NAME: \_\_\_\_\_

CORRECTIVE ASSIGNMENT

DATE: \_\_\_\_\_

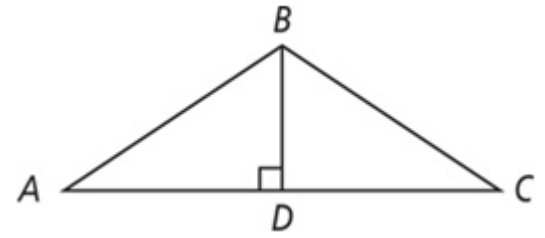
State if the two triangles are congruent. If they are, state how you know.



11. Prove the following. Start by marking the picture and determining why the triangles are congruent.

**Given:**  $\overline{BD} \perp \overline{AC}$ ,  $\overline{BD}$  bisects  $\angle ABC$

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



STATEMENTS

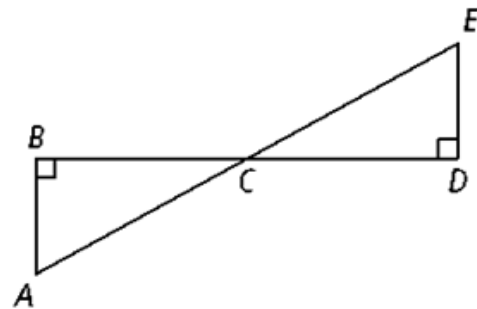
REASONS

12. Prove the following. Start by marking the picture and determining why the triangles are congruent.

**Given:**  $\angle B$  and  $\angle D$  are right angles.

$\overline{BD}$  bisects  $\overline{AE}$

**Prove:**  $\triangle ABC \cong \triangle EDC$



STATEMENTS

REASONS

### 4.3 CORRECTIVE ASSIGNMENT ANSWERS

- 1) ASA
- 5) AAS
- 9) ASA

- 2) AAS
- 6) AAS
- 10) AAS

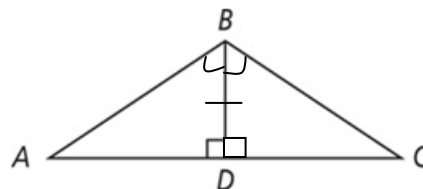
- 3) Not congruent
- 7) Not congruent

- 4) ASA
- 8) AAS

11.

**Given:**  $\overline{BD} \perp \overline{AC}$ ,  $\overline{BD}$  bisects  $\angle ABC$

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



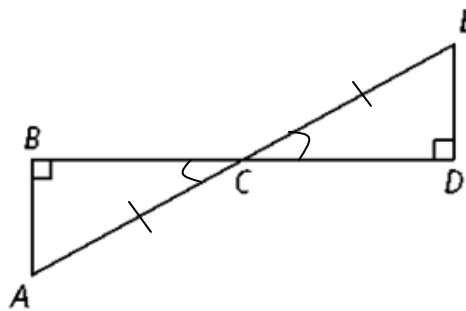
STATEMENTS	REASONS
1. $\overline{BD} \perp \overline{AC}$ , $\overline{BD}$ bisects $\angle ABC$	1. Given
2. $\angle ADB$ and $\angle CDB$ are right angles	2. Definition of perpendicular
3. $\angle ADB \cong \angle CDB$	3. All right angles are congruent
4. $\angle ABD \cong \angle CBD$	4. Definition of Angle Bisector
5. $\overline{BD} \cong \overline{BD}$	5. Reflexive Property
6. $\triangle ABD \cong \triangle CBD$	6. ASA

12.

**Given:**  $\angle B$  and  $\angle D$  are right angles.

$\overline{BD}$  bisects  $\overline{AE}$

**Prove:**  $\triangle ABC \cong \triangle EDC$



STATEMENTS	REASONS
1. $\angle B$ and $\angle D$ are right angles. $\overline{AE}$ bisects $\overline{BD}$	1. Given
2. $\angle B \cong \angle D$	2. All right angles are congruent
3. $\angle BCA \cong \angle ECD$	3. Vertical Angles are congruent
4. $\overline{AC} \cong \overline{CE}$	4. Definition of Segment bisector
5. $\triangle ABC \cong \triangle EDC$	5. AAS