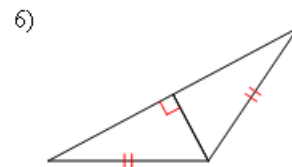
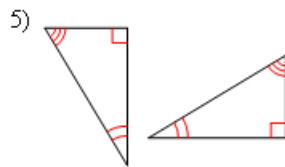
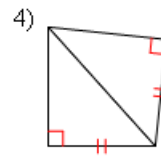
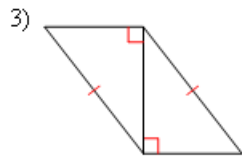
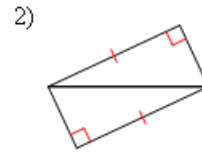
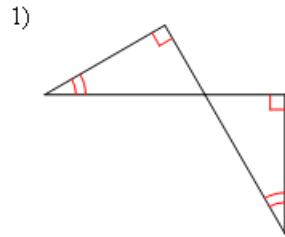


CORRECTIVE ASSIGNMENT

DATE: _____

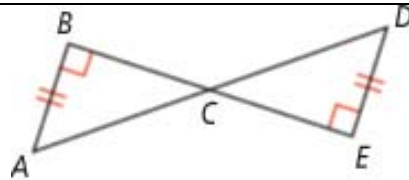
State if the two triangles are congruent. If they are, state how you know.



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

Given: \overline{BE} bisects \overline{AD} at C ,
 $\overline{AB} \perp \overline{BC}$, $\overline{DE} \perp \overline{EC}$, $\overline{AB} \cong \overline{DE}$

Prove: $\triangle ABC \cong \triangle DEC$



STATEMENTS

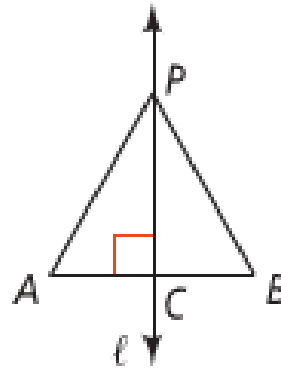
REASONS

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

Given: $\ell \perp \overline{AB}$, ℓ bisects \overline{AB} at C ,
 P is on ℓ

Prove: $PA = PB$



STATEMENTS

REASONS

4.4 CORRECTIVE ASSIGNMENT ANSWERS

- 1) Not congruent
5) Not congruent

- 2) HL
6) HL

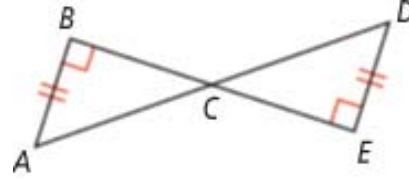
- 3) HL

- 4) HL

7.

Given: \overline{BE} bisects \overline{AD} at C ,
 $\overline{AB} \perp \overline{BC}$, $\overline{DE} \perp \overline{EC}$, $\overline{AB} \cong \overline{DE}$

Prove: $\triangle ABC \cong \triangle DEC$



STATEMENTS

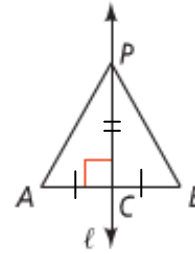
REASONS

- | STATEMENTS | REASONS |
|---|-----------------------------------|
| 1.
\overline{BE} bisects \overline{AD} at C ,
$\overline{AB} \perp \overline{BC}$, $\overline{DE} \perp \overline{EC}$, $\overline{AB} \cong \overline{DE}$ | 1. Given |
| 2. $\angle ABC$ and $\angle DEC$ are right angles | 2. Definition of perpendicular |
| 3. $\overline{AC} \cong \overline{CD}$ | 3. Definition of Segment Bisector |
| 4. $\triangle ABC \cong \triangle DEC$ | 4. HL Theorem |

8.

Given: $\ell \perp \overline{AB}$, ℓ bisects \overline{AB} at C ,
 P is on ℓ

Prove: $PA = PB$



STATEMENTS

REASONS

- | STATEMENTS | REASONS |
|--|-----------------------------------|
| 1.
$\ell \perp \overline{AB}$, ℓ bisects \overline{AB} at C ,
P is on ℓ | 1. Given |
| 2. $\angle ACP$ and $\angle BCP$ are right angles | 2. Definition of perpendicular |
| 3. $\angle ACP \cong \angle BCP$ | 3. All right angles are congruent |
| 4. $\overline{AC} \cong \overline{CB}$ | 4. Definition of Segment Bisector |
| 5. $\overline{PC} \cong \overline{PC}$ | 5. Reflexive Property |
| 6. $\triangle ACP \cong \triangle BCP$ | 6. SAS |
| 7. $PA = PB$ | 7. CPCTC |