Name ______________________________ Date ________________

Geometric Constructions- Congruence - Worksheet 1

1. Triangle ABC is congruent to triangle A'B'C'.If BC is represented by 3x-30 and B'C' is represented by 2x-10.find the value of x.

2. Polygon WXYZ is congruent to polygon W'X'Y'Z'.If ∠W ≅ ∠W',the value of angle W is 3x+15 and the value of angle W' is 5x+20,find angle W.

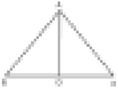
3. Triangle LMN is congruent to triangle ABC with LM ≅ AB. If LM = 5x-36, and AB = 3x+4,find the value of x.

4. Triangle XYZ is congruent to triangle X'Y'Z'. If angle Z is represented by 4x+4, and angle Z' is represented by 3x+8,find the measure of angle Z.

5. Triangle PQR is congruent to triangle P'Q'R'.If AR is represented by 4x-10 and Q'R' is represented by x+8,find the value of x.

6. Polygon PQRS is congruent to polygon P'Q'R'S'. If ∠P ≅ ∠P',the value of angle P is 3x+10 and the value of angle P' is 2x+18,find angle P.

Identify True or False dealing with Geometric Congruent



7. If BD=DC, AB≅AC then ∠BAD will be Congruent to ∠CAD .

8. If AB ≅ AC and BD ≅ DC , AB will be not equal to AD.

9. SAS property is used to prove the two triangles congruent.

10. AAA cannot be used in proving triangles congruent.