UNIT 4 LESSON 3 – TRIANGLE CONGRUENCY STATEMENTS

Each congruence statement refers to the corresponding parts of the triangles.

CPCTC - Corresponding Parts of Congruent Triangles are Congruent

Reflexive Property of Congruence



In the diagram above, you can say that the shared side of the triangles (AB) is congruent because of the reflexive property. Or in other words, $\overline{AB} \cong \overline{AB}$.

One way to remember the **Reflexive Property** is that the word "reflexive" has the same root as "reflection."

TRIANGLE CONGRUENCY STATEMENTS



SIDE, SIDE, SIDE

Corresponding sides in both triangles are congruent.

ANGLE, SIDE, ANGLE

Two angles and the side in between those angles are congruent in both triangles.

SIDE, ANGLE, SIDE

Two corresponding sides in both triangles are congruent. The angles formed by these sides are also congruent.

ANGLE, ANGLE, SIDE

Two corresponding angles in both triangles are congruent. Corresponding sides NOT in between those angles are also congruent.

HYPOTENUSE, LEG

******Use only with Right Triangles

The hypotenuse and corresponding leg of both right triangles are congruent.

SSS, SAS, ASA, AAS, HL, or Neither?

4)







SAS















HL