## 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



## THE TRIANGLES SHARE A SIDE!!!

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

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?



Neither


SAS
2)


Neither
4)


SAS ** reflexive property
6)


HL

