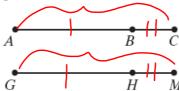
DO NOW

Given: AB = GH and BC = HM

Prove: AC = GM



Statements

- 1.AB = GH, BC = HM
- 2.AB + BC = GH + HM
- 3.AB + BC = ACGH + HM = GM
- 4.AC = GM

Reasons

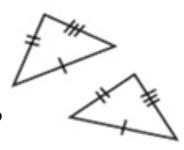
- 1. Given.
- 2. Addition Axiom
- 3. The whole is equal to the sum of its parts
- 4. Substitution postulate.

Oct 19-10:08 AM

Methods that Prove Triangles Congruent

SSS side-side-side

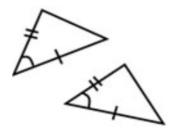
Three sides of a triangle are congruent to three sides of another triangle



SAS

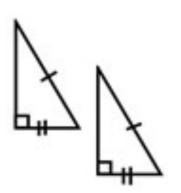
Side-Angle-Side

Two sides and the included angle of one triangle are congruent to the same two sides and angle of another triangle



HL HYPOTENUSE-LEG

The hypotenuse and leg of one right triangle are congruent to the corresponding hypotenuse and leg of another right triangle



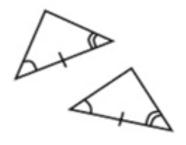


Nov 16-12:46 PM

ASA

ANGLE-SIDE-ANGLE

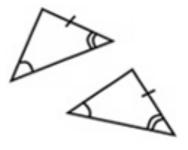
Two angles and the included side of one triangle are congruent to the same two angles and side of another triangle



AAS

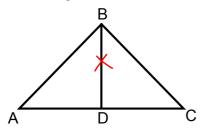
ANGLE-ANGLE-SIDE

Two angles and the non-included side of one triangle are congruent to the same two angles and side of another triangle



Reflexive Property

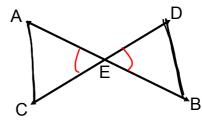
A segment (or angle) is congruent to itself



BD=BD by reflexive property

Vertical Angles

When two lines intersect, vertical angles are congruent



LCEA = LDEB Vertical 1's are =

Oct 30-8:27 AM