Notes: T2-22 Triangle Congruency SSS & SAS

Last time we looked at proving triangle congruency when two (which means all three) of the angles were congruent.

Today we will look at proving triangle congruency when two of the sides are congruent. Side-Side-Side and Side-Angle-Side are two ways to prove triangle congruence, Draw an example for each way.

Side-Side-Side (SSS)   Side-Angle-Side (SAS)

Is Side-Side-Angle (SSA – don't go spelling bad words now) enough to prove triangle congruency? Draw an example of two triangles that meet SSA, but aren't congruent.
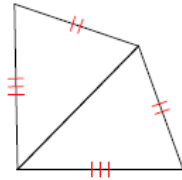
Decide if the following triangles are congruent using SSS or SAS. If there isn't enough information to decide, write "Not Enough Info." If the triangles are congruent, tell which congruency rule you used.
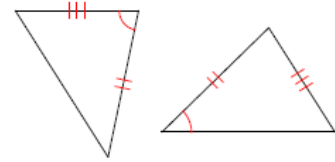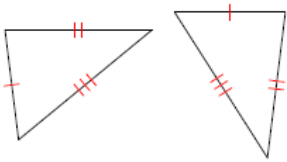
1.

2.

3.

ΔABC≈_____

ΔABC≈_____

ΔABC≈_____

4.

5.

ΔABC≈_____
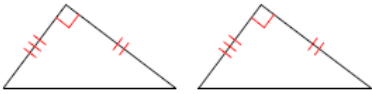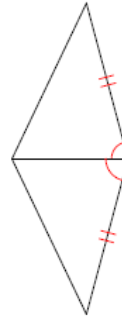
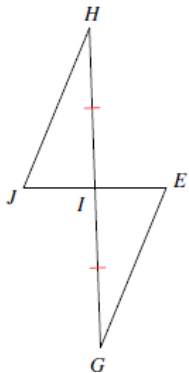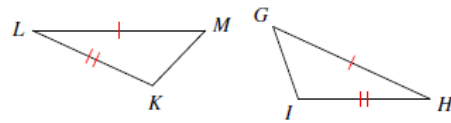ΔABC≈_____

State what addition information is required in order to know the triangles are congruent for the reason.

6. SAS

7. SSS

ΔHIJ≈_____

ΔKLM≈_____