Geometry: Proving Triangles Congruent Tip Sheet

Here's a resource sheet to help you use SSS, SAS, AAS, ASA, or HL (right triangles)



If you have vertical angles (bowtie shape)

$$\angle ACB \cong \angle DCE \rightarrow V.A.T$$



If you have right angles

J \angle JKL and \angle ONM are right angles \rightarrow Given \angle JKL \cong \angle ONM \rightarrow All right angles are congruent к \triangle JKL & \triangle ONM are right triangles \rightarrow def of right \triangle (use before HL)



If you have a midpoint

X is the midpoint of $\overline{WY} \rightarrow \overline{WY}$ $\overline{WX} \cong \overline{YX} \rightarrow$ definition of midpoint





If you have perpendicular segments



 \triangle PQS & \triangle RQS are right triangles \rightarrow def of right triangle (use before HL)



