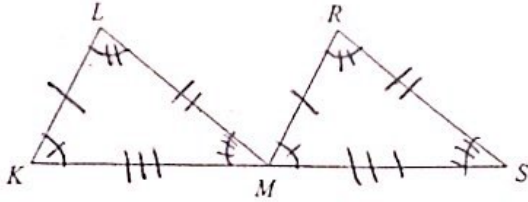


G5: Congruence Check-in Quiz

C Level:

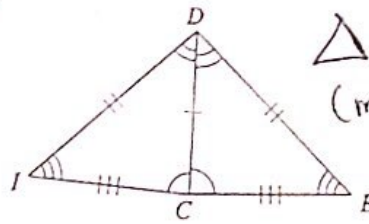
Mark all congruent sides and angles.

1) $\triangle KLM \cong \triangle MRS$



Write a congruence statement for the triangles.

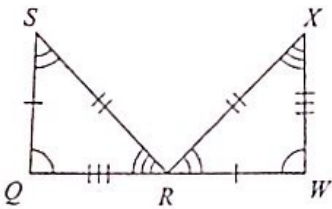
2)



$\triangle CDE \cong \triangle CDI$
(many other correct answers)

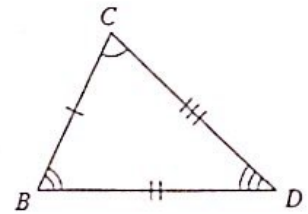
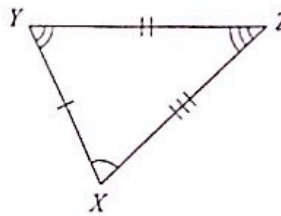
Complete each congruence statement by naming the corresponding angle or side.

3) $\triangle QSR \cong \triangle WRX$



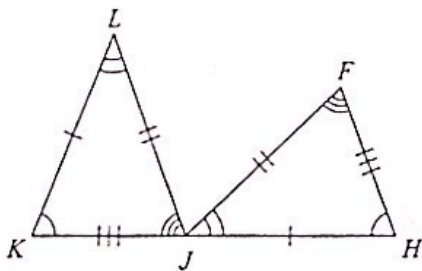
$\angle SRQ \cong ? \angle X$ or $\angle RXW$
or $\angle WXR$

4) $\triangle XYZ \cong \triangle CBD$



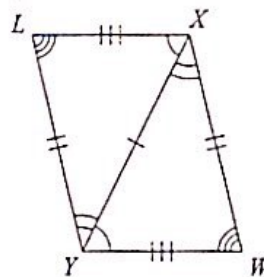
$\overline{XY} \cong ? \overline{CB}$

5) $\triangle KLJ \cong \triangle HJF$



$\overline{KL} \cong ? \overline{HJ}$

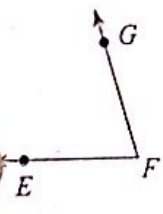
6) $\triangle YXW \cong \triangle XYL$



$\angle YXW \cong ? \angle XYL$ or $\angle LYX$

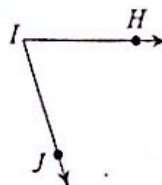
Name the acute angle using 3 letter angle notation.

7)



$\angle EFG$
or
 $\angle GFE$

8)



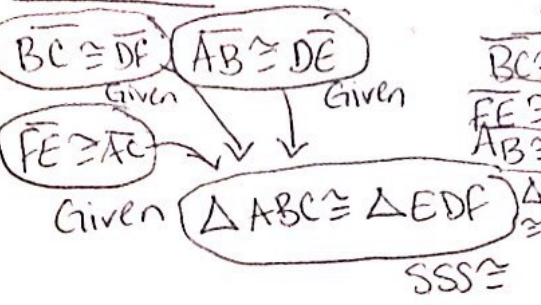
$\angle HIJ$
or
 $\angle JIH$

C Level: Use a flowchart or two-column proof to show if the triangles are congruent.

(You do not need to do both ways)

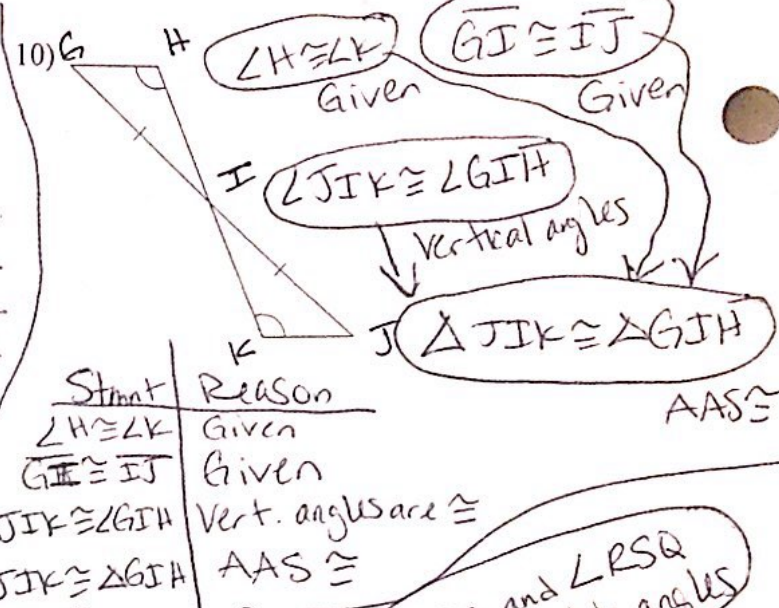


Flow chart:



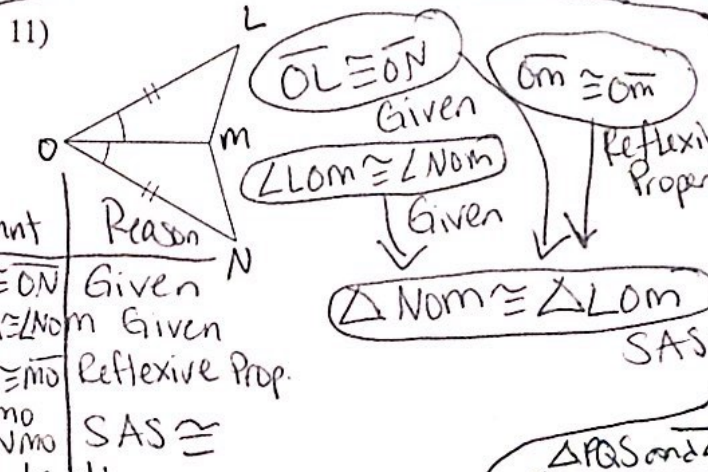
2-column proof:

Statement	Reason
$BC \cong DF$	Given
$FE \cong AC$	Given
$AB \cong DE$	Given
$\triangle ABC \cong \triangle EDF$	SSS



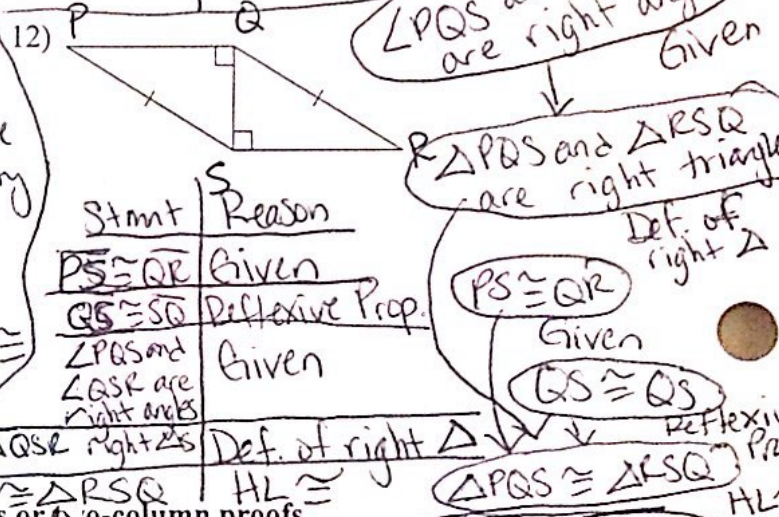
2-column proof for problem 10:

Statement	Reason
$\angle H \cong \angle K$	Given
$GI \cong IJ$	Given
$\angle JIK \cong \angle GIH$	Vertical angles
$\triangle JIK \cong \triangle GIH$	AAS



2-column proof for problem 11:

Statement	Reason
$OL \cong ON$	Given
$\angle LOM \cong \angle NOM$	Given
$OM \cong OM$	Reflexive Property
$\triangle LOM \cong \triangle NOM$	SAS

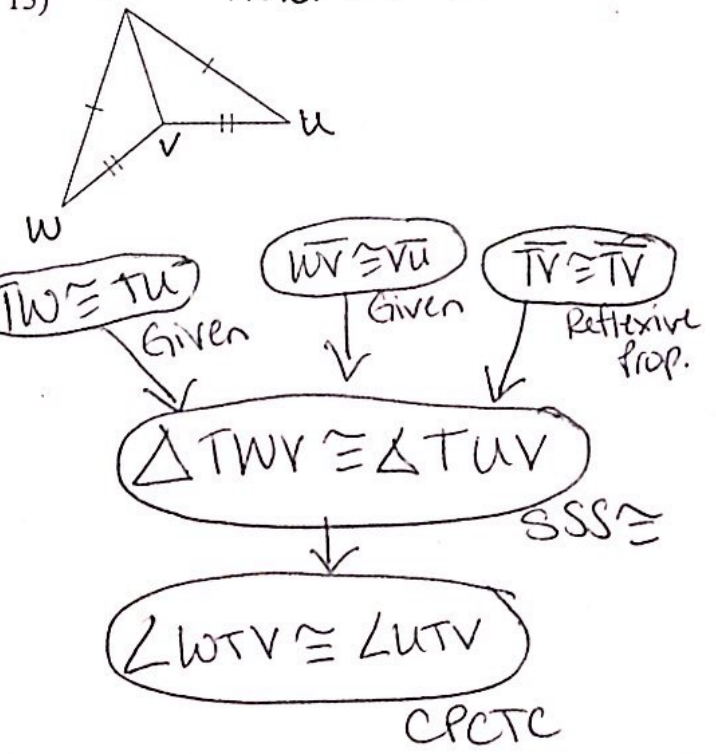


2-column proof for problem 12:

Statement	Reason
$PS \cong QR$	Given
$QS \cong SQ$	Reflexive Prop.
$\angle PQS$ and $\angle RQS$ are right angles	Given
$\triangle PQS$ and $\triangle RQS$ are right triangles	Def. of right \triangle
$\triangle PQS \cong \triangle RQS$	HL

B Level:

13) Prove: $\angle WTV \cong \angle UTV$



14) Prove: $XA \cong AZ$

