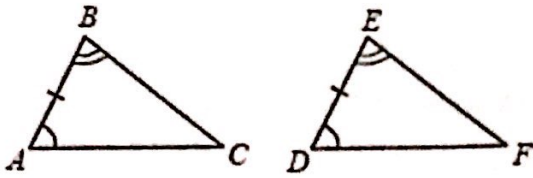


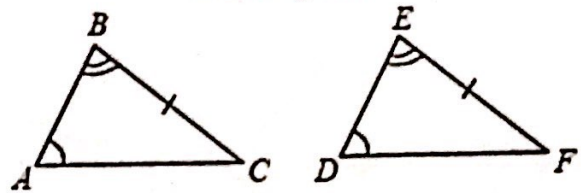
ANGLE-SIDE-ANGLE (ASA)

If two angles and the included side of one triangle are congruent to two angles and an included side of another triangle, then the triangles are congruent.



ANGLE-ANGLE-SIDE (AAS)

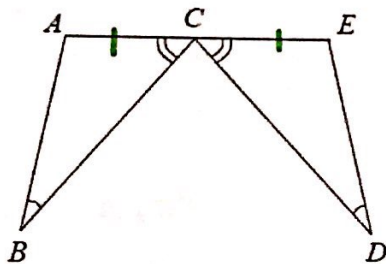
If two angles and the non-included side of one triangle are congruent to two angles and a non-included side of another triangle, then the triangles are congruent.



Directions: Label the given information on each diagram. State whether the triangles could be congruent by ASA or AAS. If so, write a congruency statement.

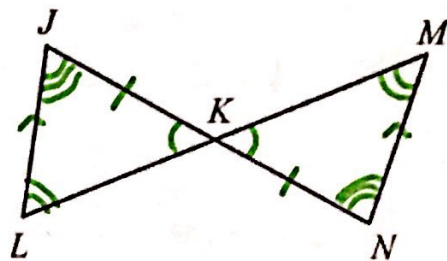
C is the midpoint of \overline{AE}

yes, $\triangle BAC \cong \triangle DEC$
by AAS



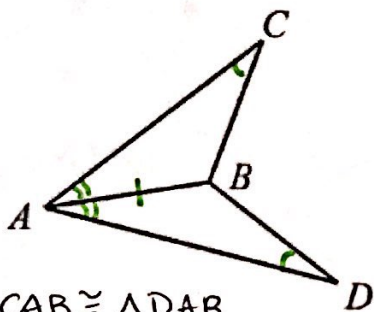
$\overline{JL} \parallel \overline{MN}$; $\overline{JK} \cong \overline{KN}$

yes, $\triangle JLK \cong \triangle MNK$ by AAS or ASA



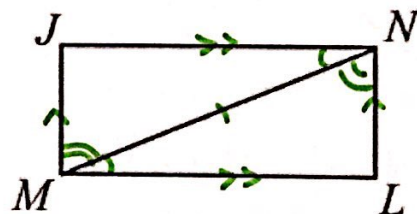
$\angle ACB \cong \angle ADB$; \overline{AB} bisects $\angle CAD$

yes, $\triangle CAB \cong \triangle DAB$
by AAS



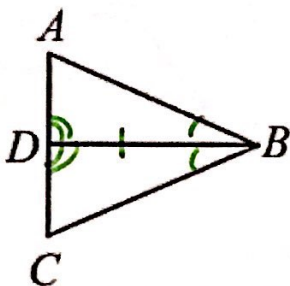
$\overline{JM} \parallel \overline{NL}$; $\overline{JM} \parallel \overline{NL}$

yes, $\triangle JMN \cong \triangle LNM$
by ASA



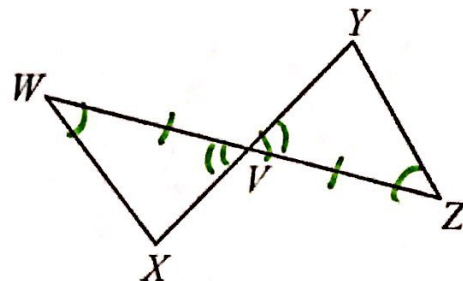
\overline{BD} bisects $\angle ABC$ and $\angle ADC$

yes, $\triangle DAB \cong \triangle DCB$
by ASA

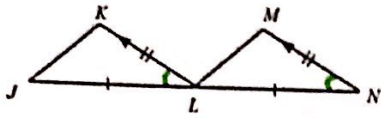


V is the midpoint of \overline{WZ} ; $\angle W \cong \angle Z$

yes, $\triangle WXV \cong \triangle ZYV$
by ASA

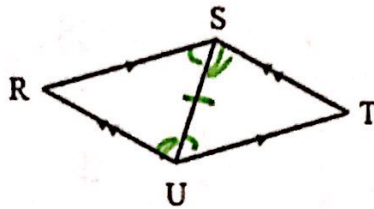


Directions: State whether the triangles could be congruent by ASA, AAS or neither. If so, write a congruency statement.



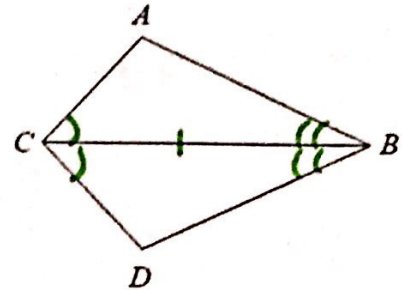
neither

*SAS



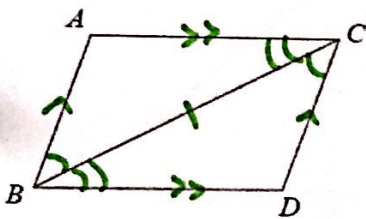
$\triangle RSU \cong \triangle TUS$
by ASA

\overline{CB} bisects $\angle ACD$ and $\angle ABD$

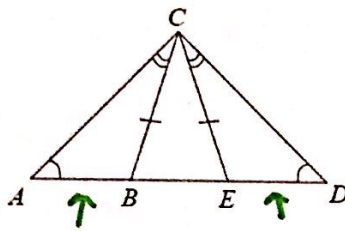


$\triangle DCB \cong \triangle CAB$
by ASA

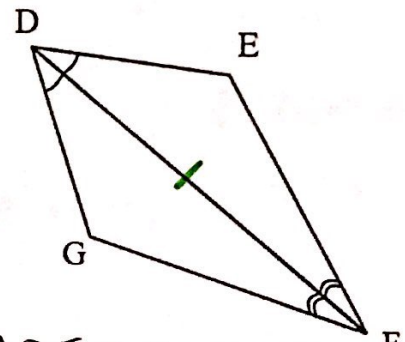
$\overline{AB} \parallel \overline{CD}$; $\overline{AC} \parallel \overline{BD}$



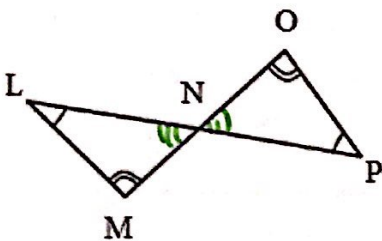
$\triangle ACB \cong \triangle DBC$
by ASA



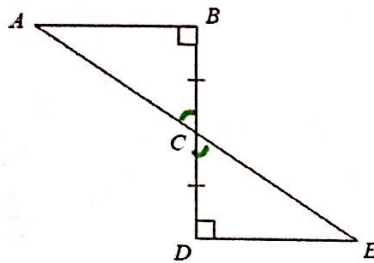
$\triangle ACB \cong \triangle DCE$
by AAS



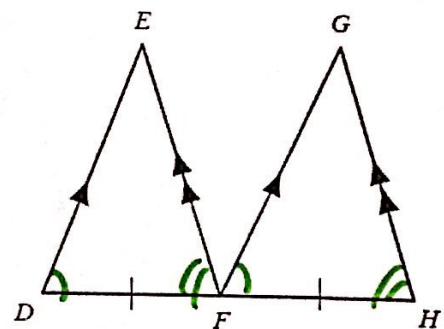
$\triangle DEF \cong \triangle DGF$
by ASA



neither



$\triangle ABC \cong \triangle EDC$
by ASA



$\triangle DEF \cong \triangle FGH$
by ASA