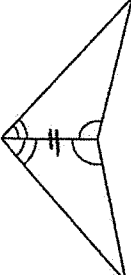
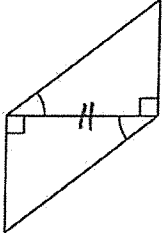
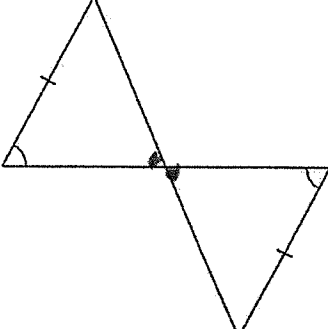


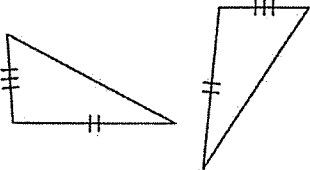
ASA and AAS Congruence

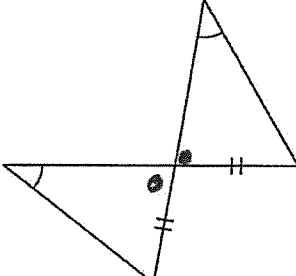
State if the two triangles are congruent. If they are, state how you know.

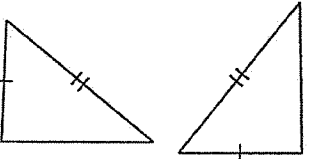
1)  ASA


2)  ASA

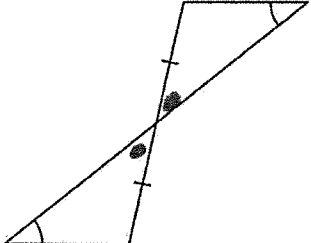
3)  AAS

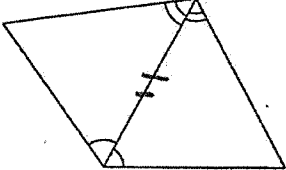
4)  not Congruent

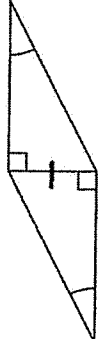
5)  AAS

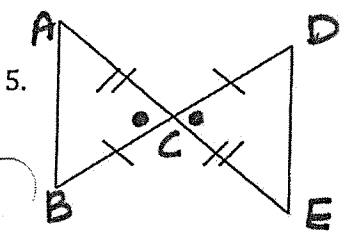
6)  not Congruent

7)  not Congruent

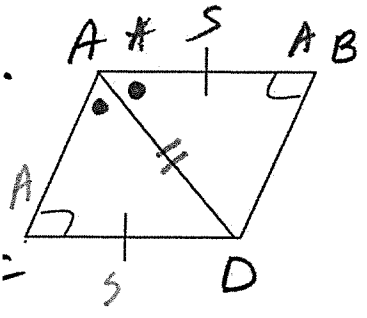
8)  AAS

9)  ASA

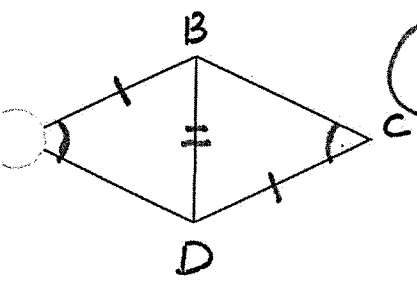
10)  AAS



$AC \cong EC$
 $BC \cong DC$
 $\angle DCE \cong \angle BCA$ vertical angle
 $\triangle ACB \cong \triangle ECD$ by **SAS**

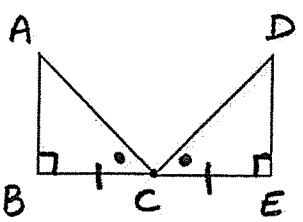


• Given AD is a bisector for $\angle CAB$
 $\checkmark \angle B \cong \angle C$ right angle
 $\angle CAD \cong \angle BAD$ bisector (not going to be used)
 $\checkmark AB \cong CD$; $\checkmark AD \cong AD$ shared side used
 $\triangle ACD \cong \triangle ABD$ by **HL**



• Given $\angle A \cong \angle C$
 $AB \cong CD$

Can not proven with the information given.



• Given C is the midpoint of \overline{BE}
 • Given $\angle DCE \cong \angle ACB$.

$CB \cong CE$ midpoint
 $\angle DCE \cong \angle ACB$
 $\angle B = \angle E$ right angle
 $\triangle ABC \cong \triangle DEC$ by **ASA**