

Name: _____

Date: _____

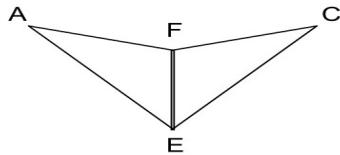
Proving Congruent Triangles using SSS, SAS, AAS and ASA

For the following sets of triangles, perform the following:

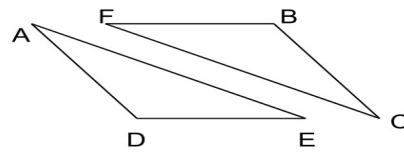
a.) diagram the congruencies

b.) decide if the triangles are congruent by one of the four postulates/theorems

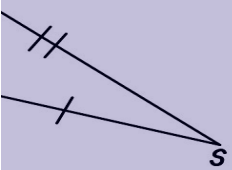
c.) write the congruence statement. If not possible, write that and give a brief explanation why.



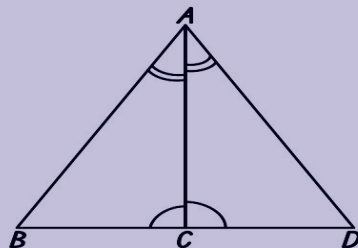
$\triangle LAEF \cong \triangle LCEF$, $\overline{AF} \cong \overline{CF}$ ASA



$\triangle LAD \cong \triangle LBE$, $\overline{LD} \cong \overline{LB}$, $\overline{AD} \cong \overline{CD}$ AAS



6



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