Proving Congruent Triangles   using SSS, SAS, AAS and ASA
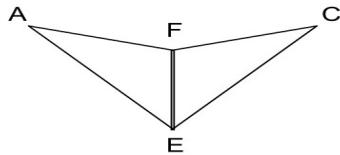
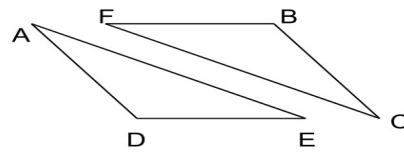*For the following sets of triangles, perform the following:*
a.) diagram the congruencies
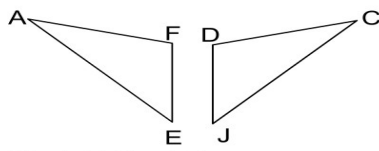*b.) decide if the triangles are congruent by one of the four postulates/theorems*
c.) write the congruence statement. If not possible, write that and give a brief explanation why.
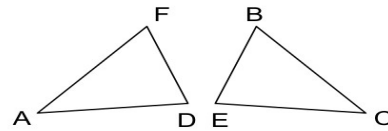

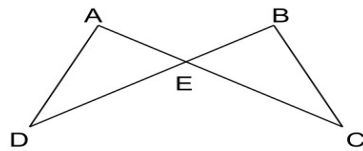∠AEF ≅ ∠CEF, $\overline{AF} \cong \overline{CF}$ ASA

∠D ≅ ∠B, ∠E ≅ ∠F, $\overline{AD} \cong \overline{CD}$ AAS

$\overline{AE} \cong \overline{CJ}$, $\overline{EF} \cong \overline{JD}$, ∠E ≅ ∠J   SAS

∠A ≅ ∠C, ∠D ≅ ∠E, $\overline{AD} \cong \overline{CE}$ ASA

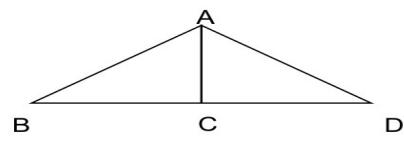∠D ≅ ∠C, $\overline{DE} \cong \overline{CE}$ SAS

$\overline{AB} \cong \overline{AD}$, $\overline{BC} \cong \overline{DC}$ SSS