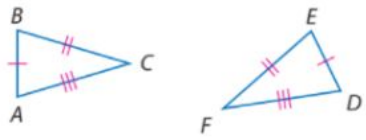
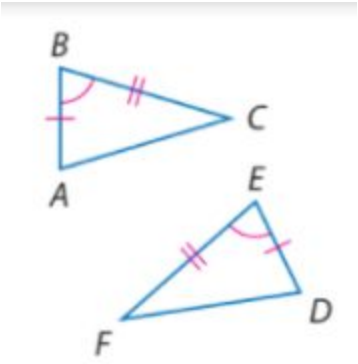
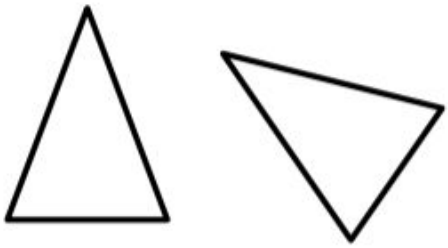
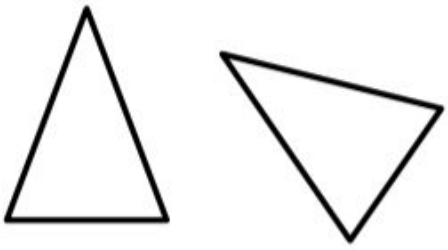
Geometry CC
4.4 Proving Triangles Congruent
(SSS and SAS)

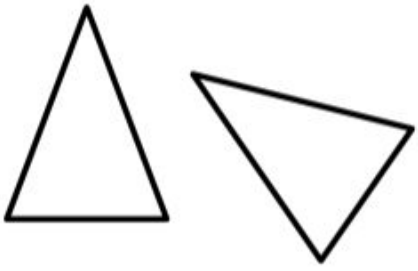
Side-Side-Side Congruence (SSS)	If three sides of one triangle are congruent to three sides of a second triangle, then the triangles are congruent.	
Side-Angle-Side Congruence (SAS)	If two sides and the _____ of one triangles are congruent to two sides and the _____ of a second triangle, then the triangles are congruent.	

SAS:



NOT SAS:



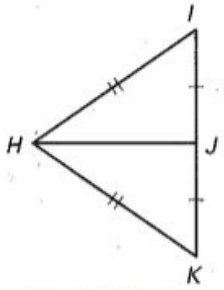


Geometry CC
4.4 Proving Triangles Congruent
(SSS and SAS)

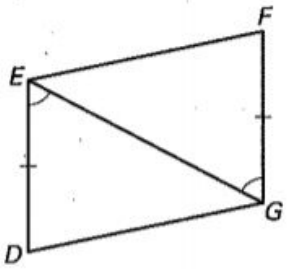
1. State the included angle of the following sides of the given triangle:
   a. $\triangle AEB$
      i. $\overline{AE}$ and $\overline{EB}$ _____
      ii. $\overline{AB}$ and $\overline{EB}$ _____
   b. $\triangle MNO$
      i. $\overline{MN}$ and $\overline{ON}$ _____
      ii. $\overline{MO}$ and $\overline{ON}$ _____

2. Decide whether there is enough information given to prove if the triangles are congruent.

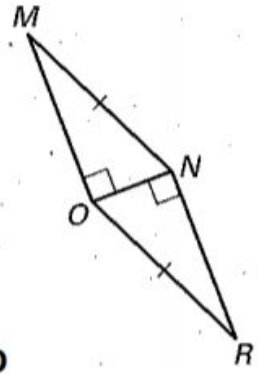
$\triangle IHJ \cong \triangle JHK$



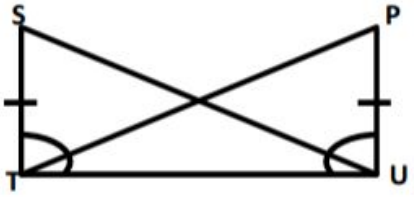
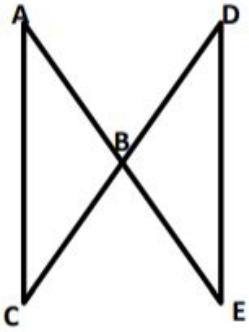
$\triangle DEG, \triangle FGE$



$\triangle MNO, \triangle RON$



ΔSTU, ΔPUT



ΔABC, ΔEBD