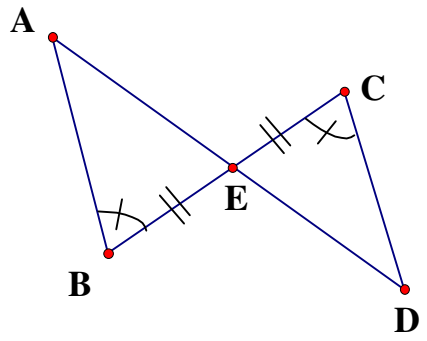
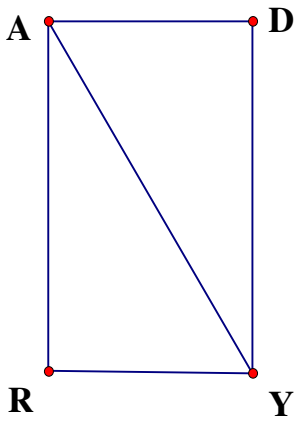
Sample Quiz on Lessons 5.1 – 5.4…. answers are given below.

From the information given, determine whether or not the triangles are congruent. If congruent, state the congruence and state which conjecture tells you that they are congruent.

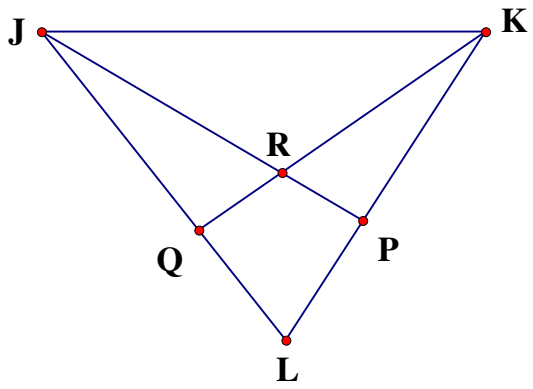
1. $\Delta ABE \cong \Delta$_____
Which conjecture supports the congruence statement? _____



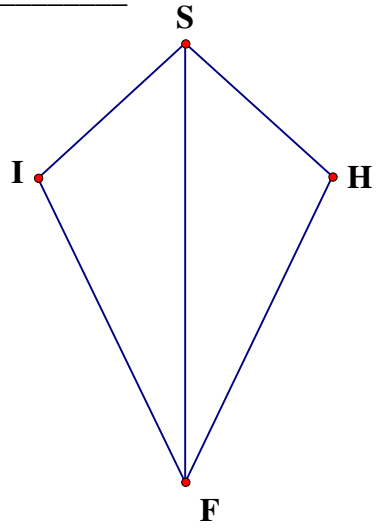
2. $\overline{AD} \perp \overline{DY}$; $\overline{AR} \perp \overline{RY}$; $\angle RAY \cong \angle DYA$
$\Delta ARY \cong \Delta$_____ by which conjecture? _____



3. Segments JP and KQ are altitudes and KL = JL. $\Delta QJK \cong \Delta$_____ by which conjecture? _____



4. Segment SF bisects angles ISH and IFH.
$\Delta FIS \cong \Delta$_____ by which conjecture?
_____



5. Draw an isosceles right triangle ΔKID. Use the ASA shortcut method to accurately draw a second triangle congruent to ΔKID.

Answers:
1. $\Delta ABE \cong \Delta DCE$ by ASA
2. $\Delta ARY \cong \Delta YDAC$ by SAA
3. $\Delta QJK \cong \Delta PKJ$ by SAA (helped by the Isosceles Δ conjecture)
4. $\Delta FIS \cong \Delta FHS$ by ASA
5. Begin by measuring and copying any side. Then copy the angles at each end of this side.