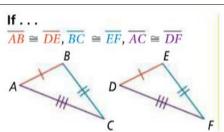
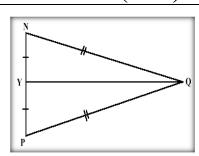
Triangle Congruence Theorems

Side – Side – Side Postulate (SSS)



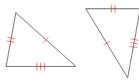
Then . . . $\triangle ABC \cong \triangle DEF$

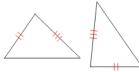


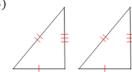
Reflexive Property!

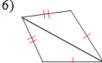
State if the two triangles are congruent and how.



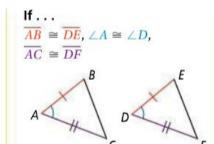






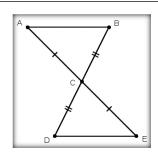


Side – Angle – Side Postulate (SAS)

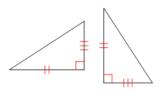


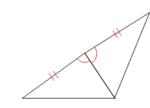
Then . . . $\triangle ABC \cong \triangle DEF$

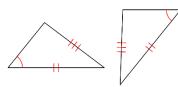
Vertical Angle Theorem!

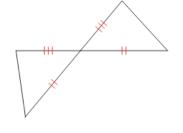


State if the two triangles are congruent and how.







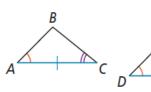


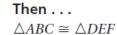
Angle – Side – Angle Postulate (ASA)

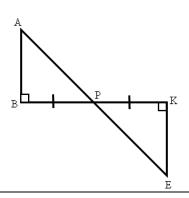
If . . .

$$\angle A\cong \angle D, \overline{AC}\cong \overline{DF},$$

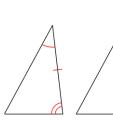
$$\angle C \cong \angle F$$

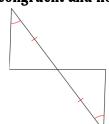


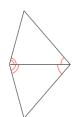


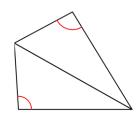


State if the two triangles are congruent and how.







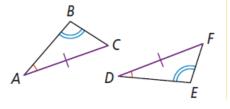


Angle – Angle – Side Theorem (AAS)

If . . .

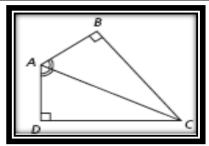
$$\angle A \cong \angle D$$
, $\angle B \cong \angle E$,

$$\overline{AC} \cong \overline{DF}$$



Then . . .

 $\triangle ABC \cong \triangle DEF$



State if the two triangles are congruent and how.

