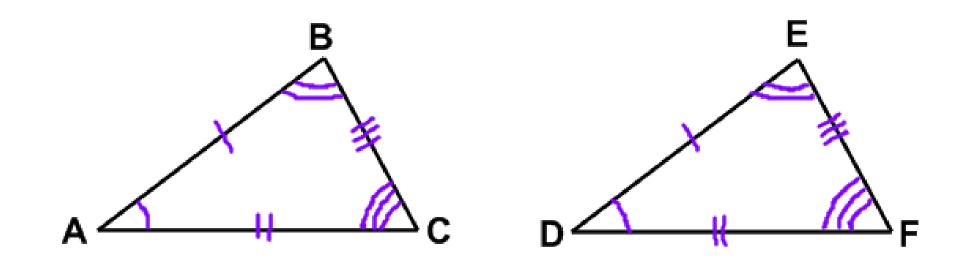
## 4 - 3 Congruent Triangles

# congruent triangles: same size and shape



\*\*vertices MUST match up in order\*\*

#### CPCTC:

reason in Proofs corresponding parts of congruent triangles are congruent

\*\*Congruence of triangles is...

symmetric If △ABC = △XYZ, then
△XYZ = △ABC.

reflexive

PAINE PAIX ≅ ΣΗ()

transitive If  $\triangle LDC \cong \triangle RST$  and  $\triangle RST \cong \triangle MPQ$ , then  $\triangle LDC \cong \triangle MPQ$ .

### Are triangles still congruent after a...

translation? 765

reflection?

rotation? 405

dilation?  $\eta_0$ 

#### Homework:

p.195 #9 - 13, 26, 27, 29, 30