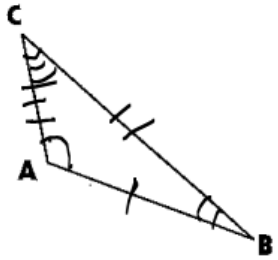
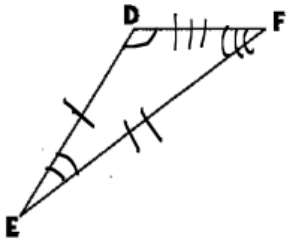
When **two figures** are congruent, their corresponding parts (sides and angles) are congruent





Corresponding Angles

$\angle A \cong \angle D$

$\angle B \cong \angle E$

$\angle C \cong \angle F$

Corresponding Sides

$\overline{AB} \cong \overline{DE}$

$\overline{BC} \cong \overline{EF}$

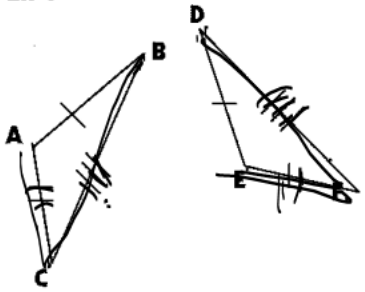
$\overline{AC} \cong \overline{DF}$

Complete the following statements:

$\Delta ABC \cong$ ΔDEF $\Delta CBA \cong$ ΔFED $\Delta BCA \cong$ ΔEFD

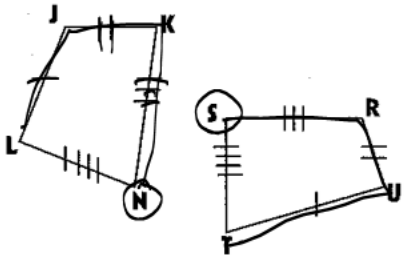
The given figures are congruent. Use the markings to complete the congruence statements.

Ex 1



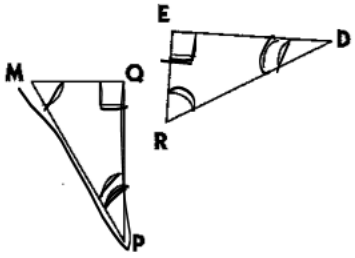
$\Delta BCA \cong$ ΔDFE

Ex 2



NKJL $\cong$ SRUT

Ex 3



$\Delta QPM \cong$ ΔEDR

IF we know that **two triangles** are congruent,

we can name all pairs of corresponding parts congruent because...

Corresponding **P**arts of **C**ongruent **T**riangles are **C**ongruent or CPCTC for short.

IF 2 Δ's are $\cong$ → all the corresponding parts are $\cong$ Why?? CPCTC