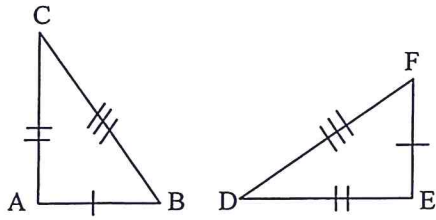


Triangle Congruence Worksheet #1

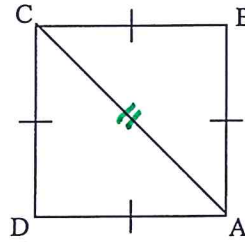
Key

1.



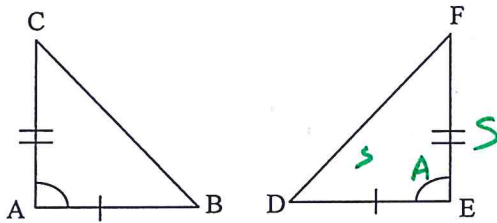
$AC \cong ED$
 $CB \cong DF$
 $AB \cong EF$
 $\triangle ACB \cong \triangle EDF$ by SSS

2.



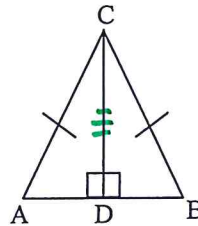
$CB \cong AD$
 $CD \cong AB$
 $CA \cong CA$ shared side
 $\triangle CDA \cong \triangle CBA$ by SSS.

3.



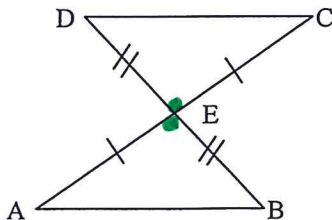
$\angle A \cong \angle E$
 $AB \cong ED$
 $AC \cong EF$
 $\triangle CAB \cong \triangle FED$ by SAS.

4.



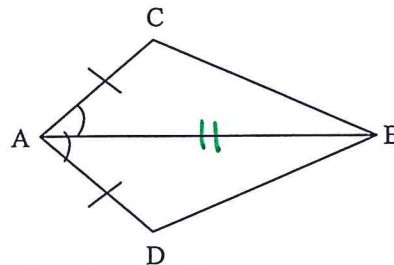
$AC \cong BC$
 $CD \cong CD$
 $\angle CDB \cong \angle CDA$ right angle.
 Can be proven by SSS or SAS.

5.



$EC \cong EA$
 $ED \cong EB$
 $\angle DEC \cong \angle BEA$
 $\triangle DEC \cong \triangle AEB$
 by SAS

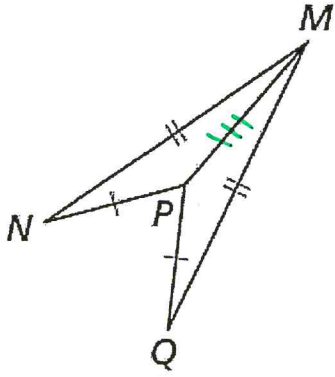
6.



$AC \cong AD$
 $\angle CAB \cong \angle DAB$
 $AB \cong AB$ shared side
 $\triangle ACB \cong \triangle ADB$ by SAS

7.

$$\triangle MNP \cong \triangle MQP$$



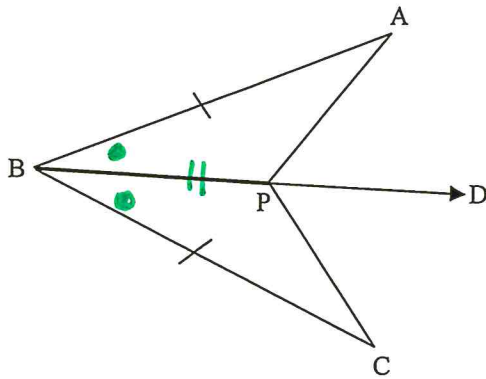
$$NP \cong QP$$

$$NM \cong QM$$

PM \cong MP shared side

$\triangle MNP \cong \triangle MQP$ by SSS.

8. Given: \vec{BD} bisects $\angle ABC$



$$AB \cong CB$$

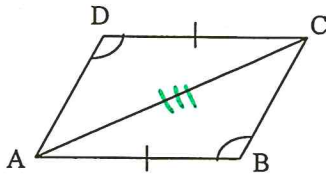
$\angle ABD \cong \angle CBD$ bisector

BP \cong PB shared side

$\triangle APB \cong \triangle CPB$ by

SAS

9-



Based on the given information

not Congruent