Name:_____ Date:_____ Period: 1 2 5 6 7 8

Congruent Triangles

Congruent: same size, shape, and measure. (≅)
Corresponding: _____ or in the same position.
Congruence Statement: an equation showing the parts that are _____.

Fill in the blanks:

CPCTC is all about matching:

C:_____

P:_____ in

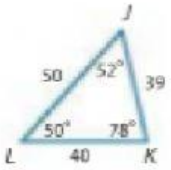
C:_____

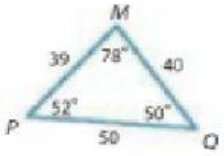
T:_____ are

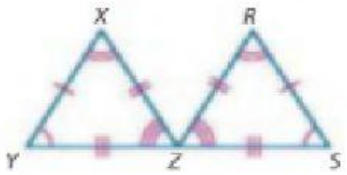
C:_____

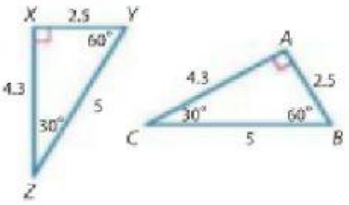
Are the following triangles congruent? Justify your answer with congruence equations for the corresponding angles and sides.

A. LJK = _____ **B.** RSZ = _____ **C.** ABC = _____









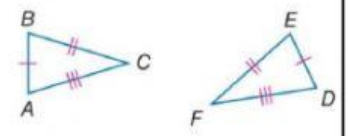
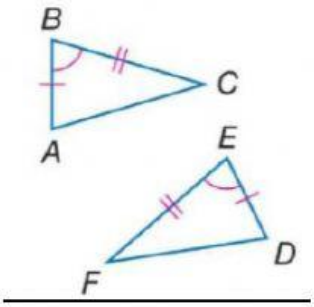
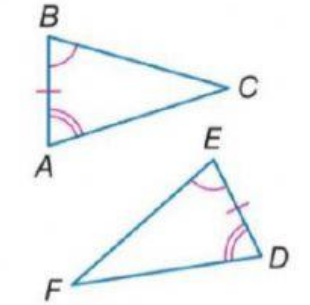
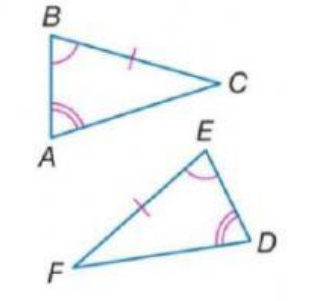
Angles	Sides	Angles	Sides	Angles	Sides
L =	LJ =	Y =	YX =	X =	YX =
J =	JM =	X =	XZ =	Y =	ZY =
K =	KM =	Z =	ZY =	Z =	XZ =

When stating triangles congruent the order of the name does matter!!!

LIVEWORKSHEETS

Name:_____ Date:_____ Period: 1 2 5 6 7 8

There are ____ congruence theorems.
Which theorem is only for right triangles? _____

Postulate or Theorem	**Meaning**	**Example** Only match marked parts	**Corresponding Angles**	**Corresponding Sides**
SSS	Triangles are congruent if all 3 _____ are congruent.		No marks parts	AB = BC = CA =
SAS	Triangles are congruent if **2 _____ and the angle _____ them** are congruent.		B =	AB = BC =
ASA	Triangles are congruent if **2 _____ and the side _____ them** are congruent.		A = B =	AB =
AAS	Triangles are congruent if **2 angles and the side after or before them** are congruent.		A = B =	BC =

LIVEWORKSHEETS

Name : _____

Congruence Statements

Sheet 1

A) Complete each congruence statement.

1) $\Delta DEF \cong \Delta YXZ$

$\overline{EF} \cong$ _____

2) $\Delta LMN \cong \Delta PQR$

$\angle M \cong$ _____

3) $\Delta ABC \cong \Delta FGH$

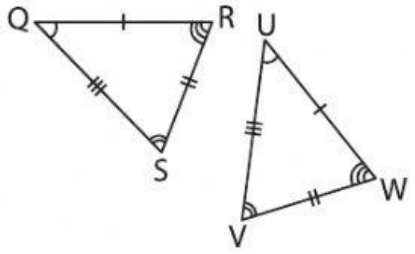
$\angle F \cong$ _____

4) $\Delta STU \cong \Delta XYZ$

$\overline{ST} \cong$ _____

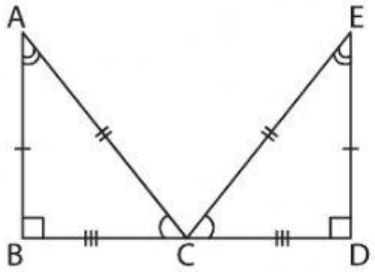
B) Complete each congruence statement.

5)



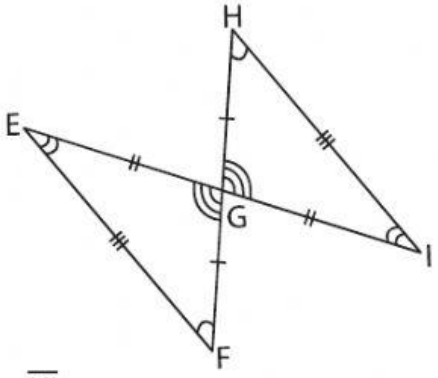
$\angle Q \cong$ _____

6)



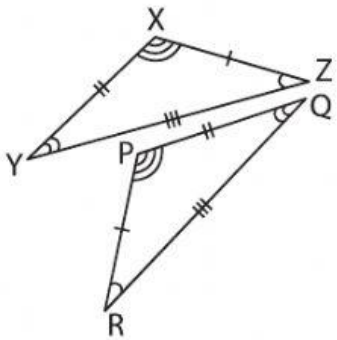
$\overline{AB} \cong$ _____

7)



$\overline{HI} \cong$ _____

8)



$\angle X \cong$ _____

9) If the triangles QRS and BCD are congruent, what is the corresponding part of $\overline{SQ}$?

_____

LIVEWORKSHEETS

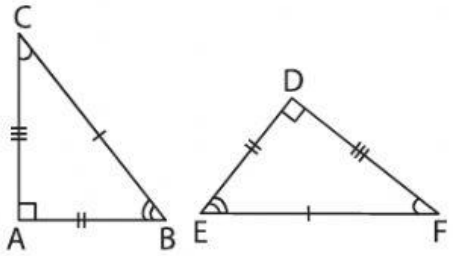
Name : _____

Congruence Statements

Sheet 1

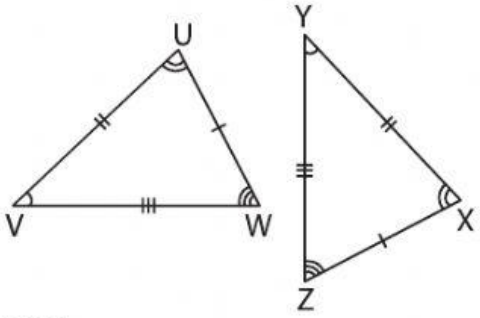
Complete the congruence statement for each pair of triangles.

1)



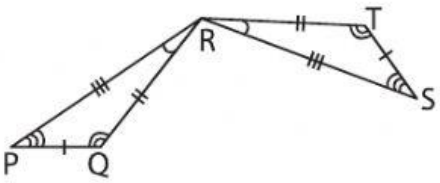
$\Delta ABC \cong$ _____

2)



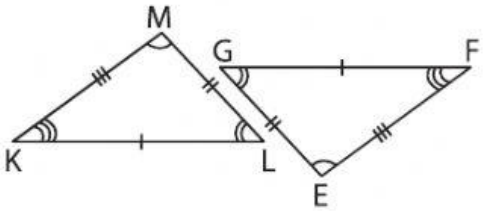
$\Delta UVW \cong$ _____

3)



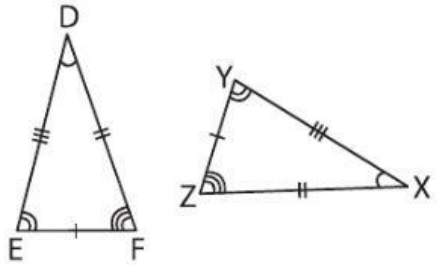
$\Delta PQR \cong$ _____

4)



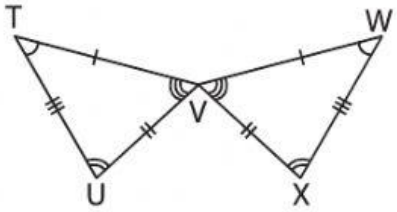
$\Delta KLM \cong$ _____

5)



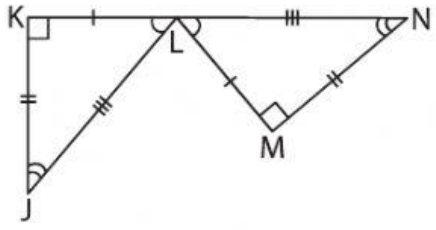
$\Delta DEF \cong$ _____

6)



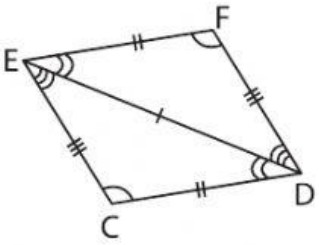
$\Delta TUV \cong$ _____

7)



$\Delta JKL \cong$ _____

8)



$\Delta CDE \cong$ _____

LIVEWORKSHEETS