Analytic Geometry - 3.3 Homework   Name _Key_

Congruent Triangles

Date_____

Complete each congruence statement by naming the corresponding angle or side.

1) $\triangle JLK \cong \triangle LJZ$

$\overline{JL} \cong$ _$\overline{LJ}$_

2) $\triangle DFE \cong \triangle EQP$

$\angle FED \cong$ _$\angle QPE$_

3) $\triangle GHI \cong \triangle GYX$

$\overline{HI} \cong$ _$\overline{YX}$_

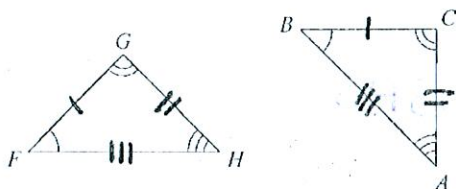4) $\triangle QRS \cong \triangle HIJ$

$\overline{RS} \cong$ _$\overline{IJ}$_

5) $\triangle TUV \cong \triangle TRS$

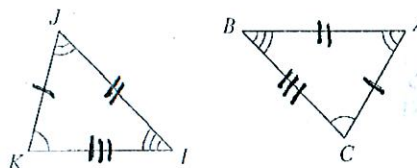$\angle U \cong$ _$\angle R$_

6) $\triangle FEG \cong \triangle FUT$

$\angle GFE \cong$ _$\angle TFU$_

7)

$\overline{GH} \cong$ _$\overline{CA}$_

8)

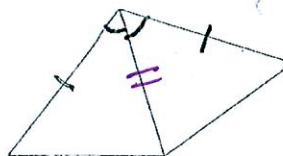$\angle J \cong$ _$\angle A$_

State if the two triangles are congruent by SSS, SAS, ASA, AAS, or HL. If they are not congruent, write NOT CONGRUENT.
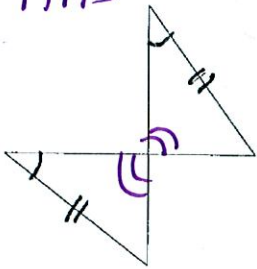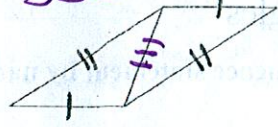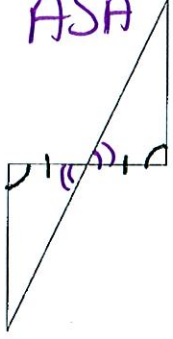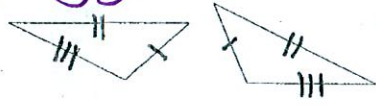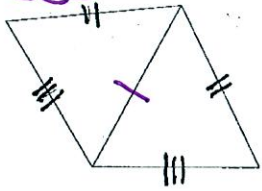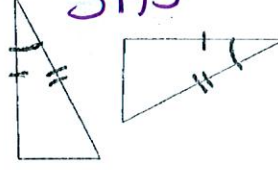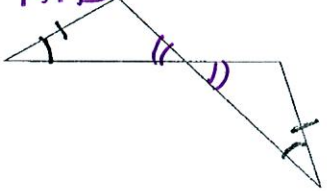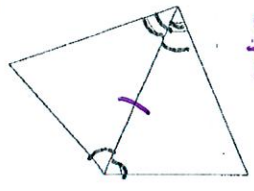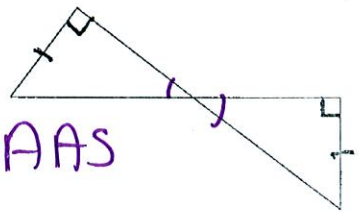
9)

not $\cong$

10)

SAS

11)

not $\cong$

-1-

12) AAS

13) SSS

14) ASA

15) SSS

16) SSS

17) SAS

18) AAS

19) ASA

20) AAS

21) ASA