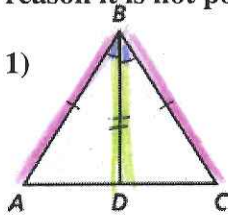


Geometry  
Worksheet – Congruent Triangles

NAME KEY

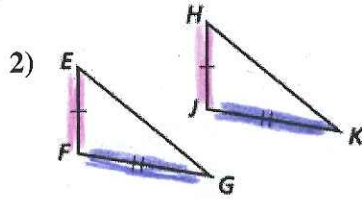
Date \_\_\_\_\_ HR \_\_\_\_\_

- a) Determine whether the following triangles are congruent.  
 b) If they are, name the triangle congruence (pay attention to proper correspondence when naming the triangles) and then identify the Theorem or Postulate (SSS, SAS, ASA, AAS, HL) that supports your conclusion.  
 c) Be sure to show any additional congruence markings you used in your reasoning.  
 d) If the triangles cannot be proven congruent, state “not possible.” Then given the reason it is not possible.



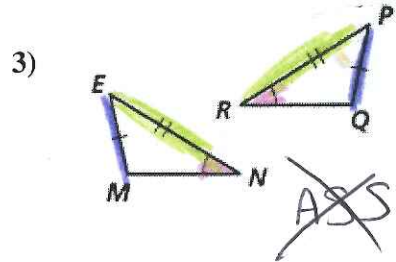
Congruence:  
 $\triangle ABD \cong \triangle CBD$

Reason: SAS



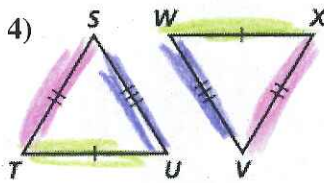
Congruence:  
 $\triangle EFG \cong \triangle$  \_\_\_\_\_

Reason: not possible



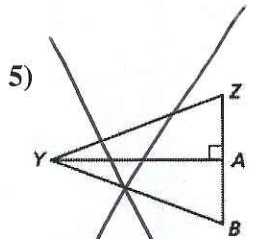
Congruence:  
 $\triangle EMN \cong \triangle$  \_\_\_\_\_

Reason: not possible



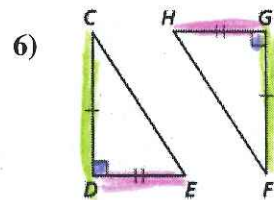
Congruence:  
 $\triangle STU \cong \triangle VWX$

Reason: SSS



Congruence:  
 $\triangle YZA \cong \triangle$  \_\_\_\_\_

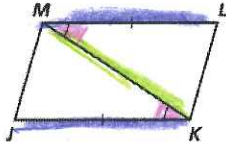
Reason:



Congruence:  
 $\triangle CDE \cong \triangle FGH$

Reason: SAS

7)

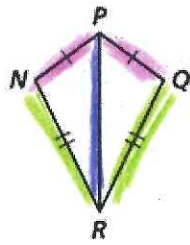


Congruence:

$$\triangle KJM \cong \triangle MLK$$

Reason: SAS

8)

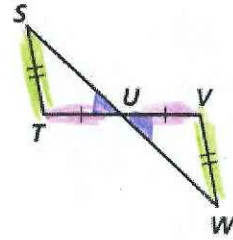


Congruence:

$$\triangle NPR \cong \triangle QPR$$

Reason: SSS

9)

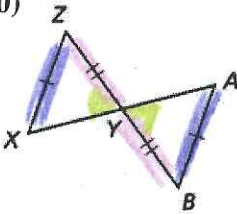


Congruence:

$$\triangle STU \cong \triangle \text{NOT CONG.}$$

Reason: ~~ASS~~

10)

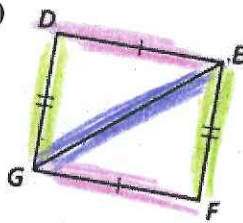


Congruence:

$$\triangle XYZ \cong \triangle \text{NOT}$$

Reason: ~~ASS~~

11)

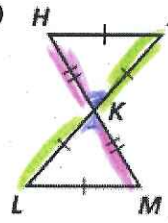


Congruence:

$$\triangle DEG \cong \triangle FGE$$

Reason: SSS

12)

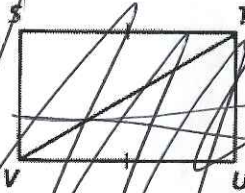


Congruence:

$$\triangle HJK \cong \triangle MLK$$

Reason: SSS or SAS

13)

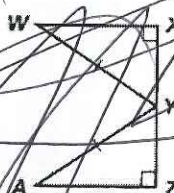


Congruence:

$$\triangle STV \cong \triangle \text{_____}$$

Reason:

14)

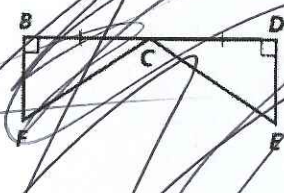


Congruence:

$$\triangle WXY \cong \triangle \text{_____}$$

Reason:

15)



Congruence:

$$\triangle BCF \cong \triangle \text{_____}$$

Reason: