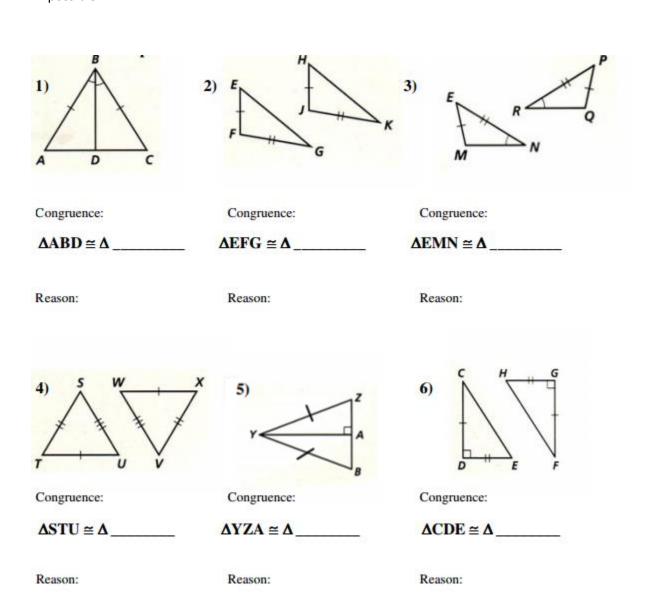
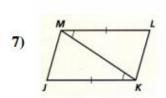
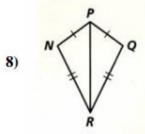
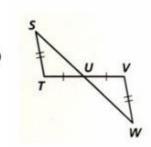
- A) Determine whether the following triangles are congruent.
- B) If they are, name the triangle congruence (Pay attention to proper correspondence when naming the triangles) and then identify the theorem or postulate (SSS, SAS, ASA, AAS, HL) that supports your conclusion.
- C) Be sure to show any additional congruence markings you used in your reasoning.
- D) If the triangles cannot be proven congruent, state "not possible." Then give the reason it is not possible.









Congruence:

ΔKJM ≅ Δ\_\_\_\_\_

Congruence:

Congruence:

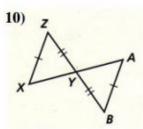
 $\Delta NPR \cong \Delta$ 

**ΔSTU** ≅ **Δ**\_\_\_\_\_

Reason:

Reason:

Reason:



Congruence:

 $\Delta XYZ \cong \Delta$ 

12)



Congruence:

 $\Delta DEG \cong \Delta$ 

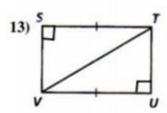
Congruence:

**ΔHJK** ≅ **Δ**\_\_\_\_\_

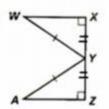
Reason:

Reason:

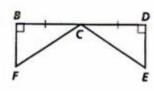
Reason:



14



15)



Congruence:

**ΔSTV** ≅ **Δ**\_\_\_\_\_

Congruence:

**ΔWXY** ≅ **Δ**\_\_\_\_\_

Congruence:

**∆BCF** ≅ **∆**\_\_\_\_\_

Reason:

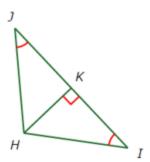
Reason:

Reason:

16. Given:  $\angle I \cong \angle J$ 

 $\overline{HK} \perp \overline{IJ}$ 

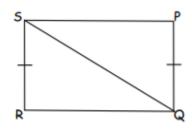
Prove:  $\overline{JK} \cong \overline{IK}$ 



Statement	Reason
1. ∠ <i>I</i> ≅ ∠ <i>J</i>	1.
2. $\overline{HK} \perp \overline{IJ}$	2.
3. ∠HKI and ∠HKJ are right angles	3.
4. ∠ <i>HKI</i> ≅ ∠ <i>HKJ</i>	4.
5. $\overline{HK} \cong \overline{HK}$	5.
6. $\Delta HKI \cong \Delta HKJ$	6.
7. $\overline{JK} \cong \overline{IK}$	7.

17. Given:  $\overline{RS}\cong \overline{PQ}$ 

 $\angle P$  and  $\angle R$  are right angles Prove:  $\Delta PQS \cong \Delta RSQ$ 



Statement	Reason
1. $\overline{RS} \cong \overline{PQ}$	1.
2. $\angle P$ and $\angle R$ are right angles	2.
3. $\triangle PQS$ and $\triangle RSQ$ are right triangles	3.
4. $\overline{SQ} \cong \overline{SQ}$	4.
5. $\Delta PQS \cong \Delta RSQ$	5.