More Practice Marking Congruent Parts of Triangles

On the graded Quick Check you will need to...

* Write a congruence statement for congruent polygons.
* Identify congruent parts of congruent polygons.
* Mark additional congruent parts of triangles and give the 'reason' that justifies your statement.

1. Given $\triangle PUT \cong \triangle HER$, complete each of the following statements.

   $\angle U \cong \underline{\text{______}}$  \hspace{1cm} $\overline{PT} \cong \underline{\text{______}}$  \hspace{1cm} $\angle TPU \cong \underline{\text{______}}$

2. Write a congruence statement for the set of triangles.

   a.  
   
   ![Triangle Diagram](image)

   Congruence Statement:  
   $\triangle XYZ \cong \underline{\text{______}}$

   b.  
   
   ![Triangle Diagram](image)

   Congruence Statement:  
   $\triangle CED \cong \underline{\text{______}}$
Mark any additional parts of the following triangles congruent. Then, give the ‘reason’ that justifies your statement.

3. 

4. 

5. 

6. \( WY \) bisects \( \angle FYX \)

7. \( \triangle QRS \) and \( \triangle QHS \) are equilateral triangles

8. \( EG \parallel VF \)
Mark any additional parts of the following triangles congruent. Write a congruence statement to describe what you marked. Then, give the 'reason' that justifies your statement.

9. \( L \) is the midpoint of \( \overline{JP} \)

Congruence Statement:

Reason:

10.

Congruence Statement:

Reason:

11.

Congruence Statement:

Reason:

12. Congruence Statement #1:

Reason: Reflexive Property

Congruence Statement #2:

Reason: Isosceles Triangle Theorem

Congruence Statement #3:

Reason: Definition of Perpendicular

Congruence Statement #4:

Reason: Perpendicular Bisector Theorem