

Find the measure of the indicated angle.

1. $\triangle PQR \cong \triangle STU$. Find $\angle U$. _____



2. $EFGH \cong JKLM$. Find $\angle M$. _____



Draw a picture to represent $\triangle JKL \cong \triangle PQR$ and answer the Questions 4 - 6 below.



True or False.

4. $\angle L = \angle Q$ _____

5. $LK = RQ$ _____

6. If $JK = 3x - 14$ and $PQ = 2x + 25$, find the value for x . _____

State the postulate or theorem you would use to prove each pair of triangles congruent. If the triangles cannot be proved congruent, write *not possible*.

7. _____



8. _____



9. _____



10. _____



11. _____



12. _____



Tell whether the HL Theorem can be applied to prove the triangles are congruent.

13. _____



14. _____



Geometry Chapter 8 Test Answer Key

John Diehl



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