

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. \_\_\_\_\_



# Chapter 8 Geometry

**Angie Papple Johnston**



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