

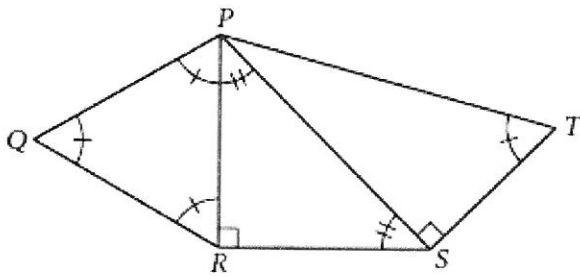
Name: _____ Period: _____ Date: _____

Unit 5 Triangles Practice Test 2

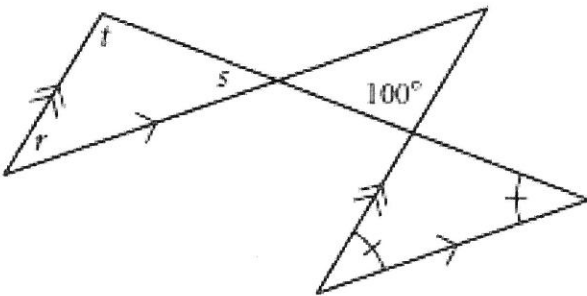
1) Can you construct the following triangles? If so, sketch an example.

- a. Equilateral Obtuse b. Acute Right c. Isosceles Equilateral d. Right Scalene

2) Find the measure of $\angle QPT$.

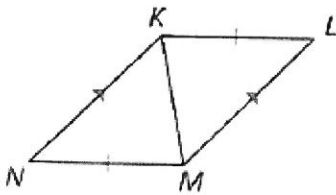


3) Find r , s , t .

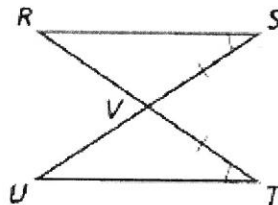


4) Decide if the triangle congruent. If so, provide a shortcut that proves they are congruent. Then write a congruence statement.

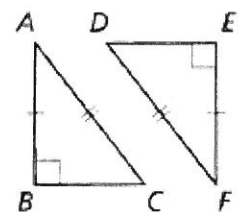
$\triangle KLM$ and $\triangle MNK$



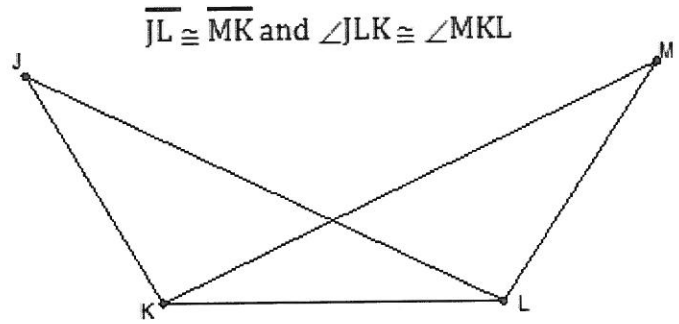
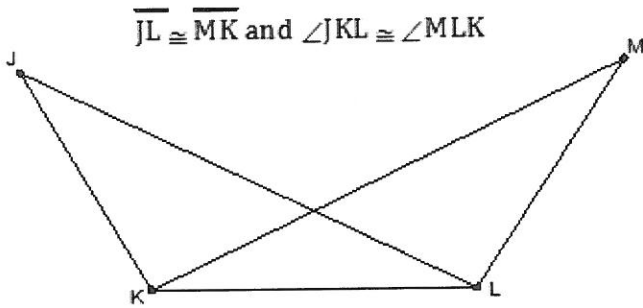
$\triangle RSV$, $\triangle UTV$



$\triangle ABC$, $\triangle FED$



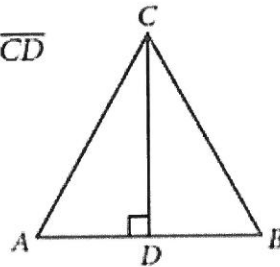
(question 4 continued)



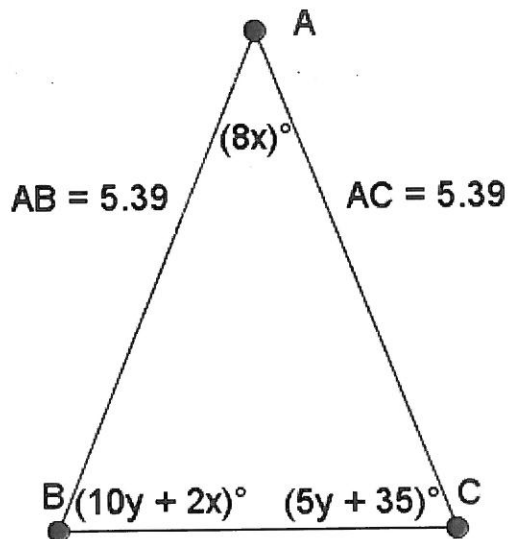
5) Prove the following.

Given: Isosceles $\triangle ABC$ with $\overline{AC} \cong \overline{BC}$ and altitude \overline{CD}

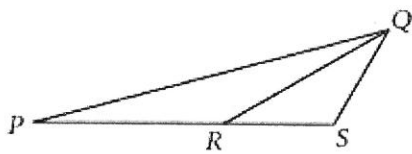
Show: \overline{CD} is a median



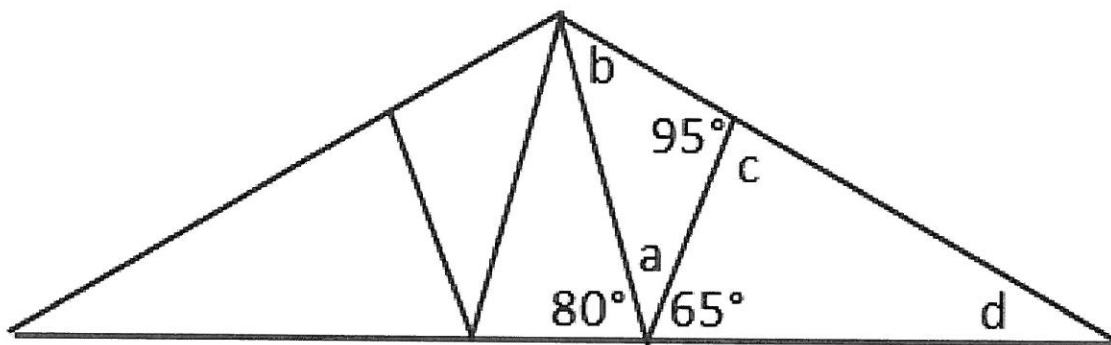
6) Find x and y .



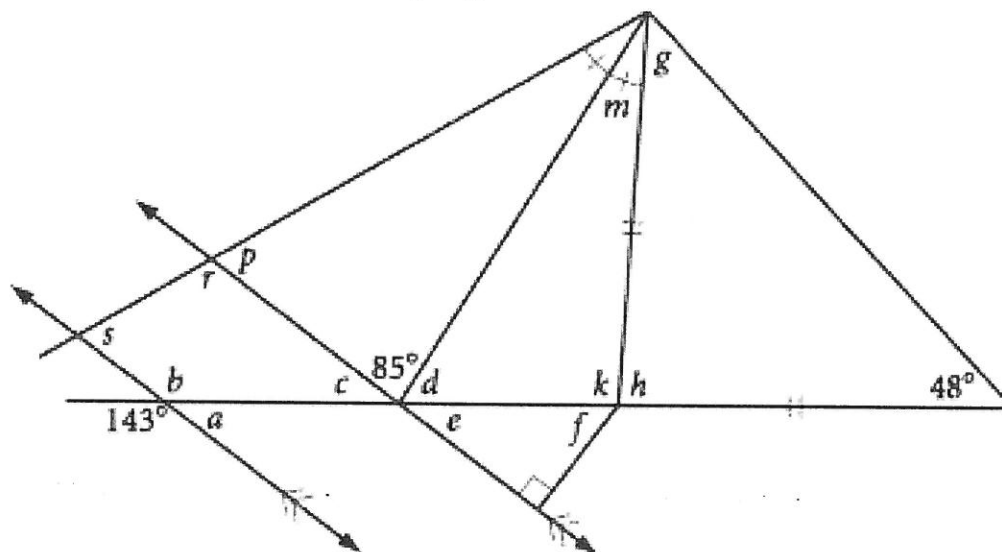
- 7) $PR = QR$ and $QS = RS$.
 If $m\angle RSQ = 120^\circ$, what is
 $m\angle QPR$?



- 8) Find the measures of angles a, b, c, d.

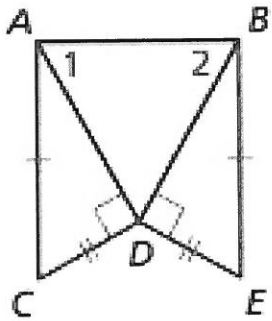


- 9) Find the measures of the missing angles.

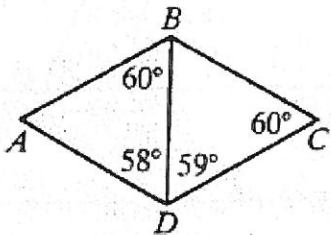
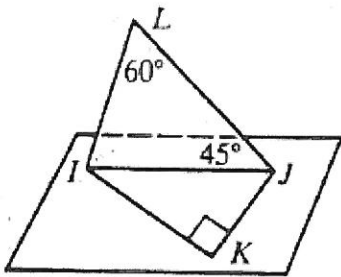


- 10) Find the range of possible lengths for a third side of a triangle with side lengths 3 and 15.

11) Prove angles 1 and 2 are congruent with the given information.



12) Each diagram is not drawn to scale. Use the given information to order the side lengths from least to greatest.



13) Can each of the sets of side lengths construct a triangle? Yes or no.

1, 2, 3

5, 12, 13

10, 21, 10

52.1, 26.5, 25.7