

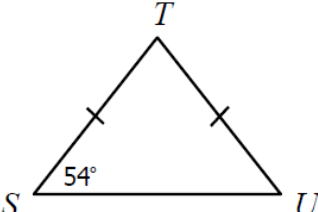
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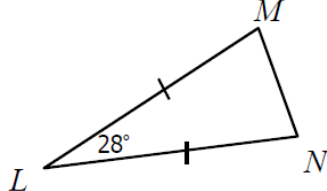
Unit 4: Congruent Triangles

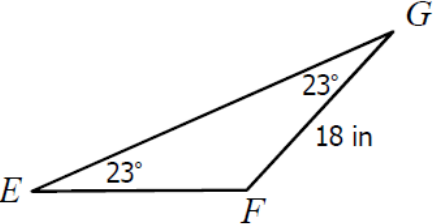
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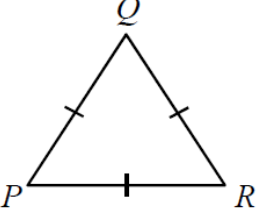
Homework 3: Isosceles & Equilateral Triangles

Directions: Find each missing measure.

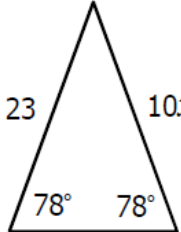
1.   $m\angle T = \underline{\hspace{2cm}}$   
 $m\angle U = \underline{\hspace{2cm}}$

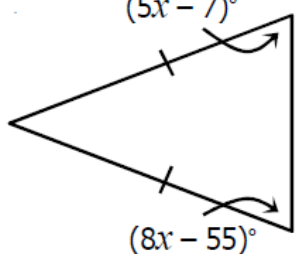
2.   $m\angle M = \underline{\hspace{2cm}}$   
 $m\angle N = \underline{\hspace{2cm}}$

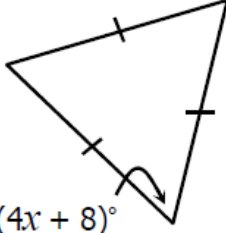
3.   $EF = \underline{\hspace{2cm}}$   
 $m\angle F = \underline{\hspace{2cm}}$

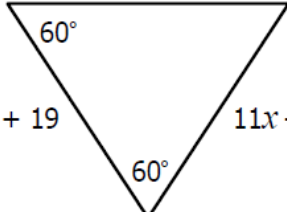
4.   $m\angle P = \underline{\hspace{2cm}}$   
 $m\angle Q = \underline{\hspace{2cm}}$   
 $m\angle R = \underline{\hspace{2cm}}$

Directions: Find the value of each variable.

5.   $4x + 23$   $10x - 1$   
 $78^\circ$   $78^\circ$

6.   $(5x - 7)^\circ$   
 $(8x - 55)^\circ$

7.   $(4x + 8)^\circ$

8.   $60^\circ$   
 $7x + 19$   $11x - 89$   
 $60^\circ$

9. In  $\triangle ABC$ , if  $\overline{AC} \cong \overline{CB}$ ,  $m\angle A = 3x + 18$ ,  $m\angle B = 7x - 58$ , and  $m\angle C = 2x - 8$ , find  $x$  and the measure of each angle.

$x = \underline{\hspace{2cm}}$

$m\angle A = \underline{\hspace{2cm}}$

$m\angle B = \underline{\hspace{2cm}}$

$m\angle C = \underline{\hspace{2cm}}$