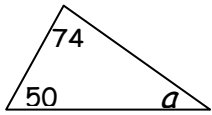


**Notes: T2-20 Types of Triangles**

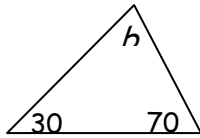
Angles in triangles:

- ◆ The sum of the interior angles is  $180^\circ$ .
- ◆ The exterior angle of a triangle is equal to the sum of the remote interior angles.

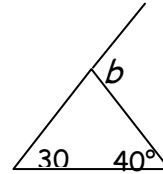
1. \_\_\_\_\_



2. \_\_\_\_\_



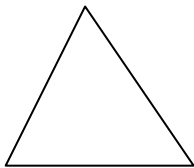
3. \_\_\_\_\_



**Triangles by Angles**

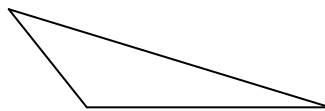
Acute Triangles

- ◆ All angles are less than  $90^\circ$



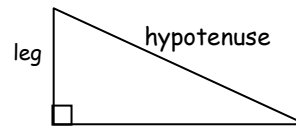
Obtuse Triangles

- ◆ Exactly one angle is greater than  $90^\circ$



Right Triangles

- ◆ Exactly one angle is  $90^\circ$ .

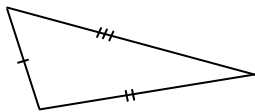


leg

**Triangles by Sides**

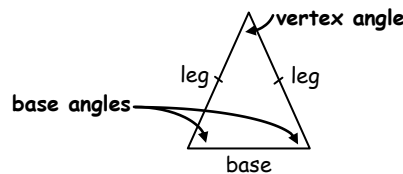
Scalene Triangle

- ◆ No congruent sides



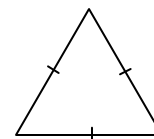
Isosceles Triangles

- ◆ Two congruent sides
- ◆ Base angles are congruent



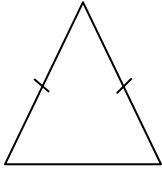
Equilateral Triangles

- ◆ Three congruent sides.
- ◆ Three congruent angles.

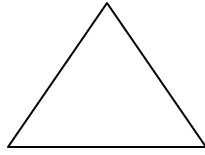


Name Each Triangle by its Angles and by its Sides.

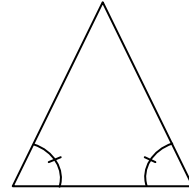
a. \_\_\_\_\_



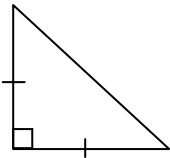
b. \_\_\_\_\_



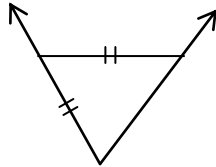
c. \_\_\_\_\_



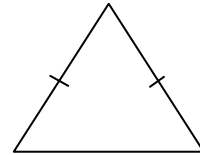
d. \_\_\_\_\_



e. \_\_\_\_\_

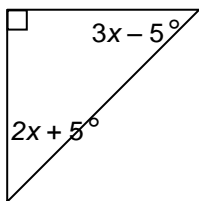


f. \_\_\_\_\_

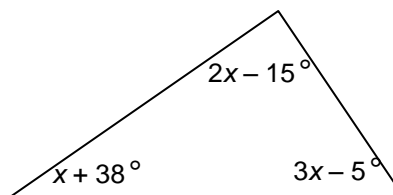


Name the following triangles by their Angles and Sides then solve for  $x$ .

g. \_\_\_\_\_



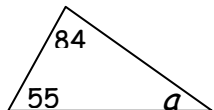
h. \_\_\_\_\_



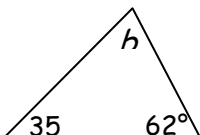
**Name the Triangle by its angle and side and Find the indicated missing measures.**

Show your work!

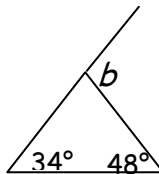
1. \_\_\_\_\_



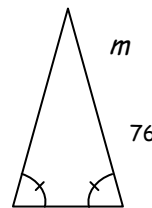
2. \_\_\_\_\_



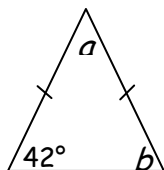
3. \_\_\_\_\_



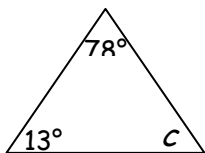
4. \_\_\_\_\_



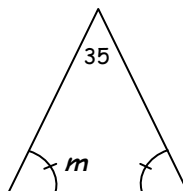
5. \_\_\_\_\_



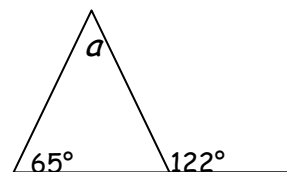
6. \_\_\_\_\_



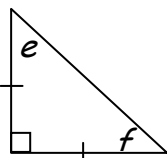
7. \_\_\_\_\_



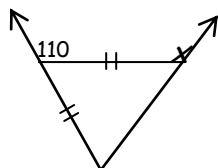
8. \_\_\_\_\_



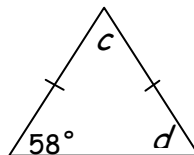
9. \_\_\_\_\_



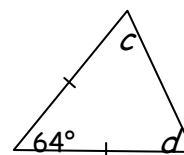
10. \_\_\_\_\_



11. \_\_\_\_\_

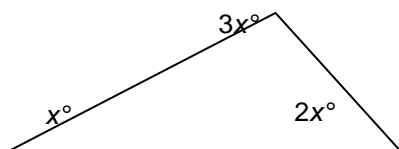


12. \_\_\_\_\_

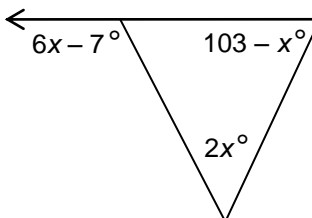


Solve for  $x$ .

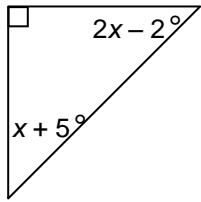
13. \_\_\_\_\_



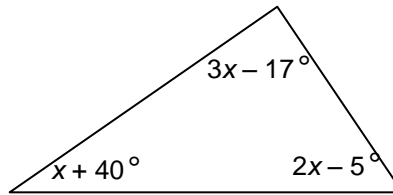
14. \_\_\_\_\_



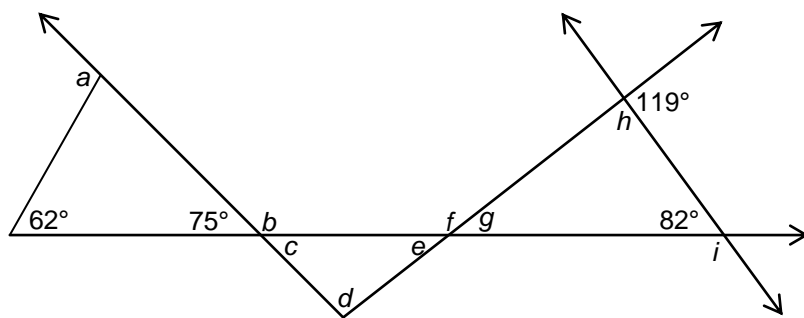
15. \_\_\_\_\_



16. \_\_\_\_\_



17. Solve for each missing angle measure.



$a = \underline{\hspace{2cm}}$      $f = \underline{\hspace{2cm}}$

$b = \underline{\hspace{2cm}}$      $g = \underline{\hspace{2cm}}$

$c = \underline{\hspace{2cm}}$      $h = \underline{\hspace{2cm}}$

$d = \underline{\hspace{2cm}}$      $i = \underline{\hspace{2cm}}$

**Review:**

Evaluate each function.

$f(x) = 2x - 1$

$g(x) = 2^x - 1$

18.  $f(5)$

19.  $g(5)$

20.  $f(-1)$

21.  $g(-1)$

22.  $f(0)$

23.  $g(0)$

24.  $\frac{[f(5)]}{3}$

25.  $3[g(5)]$

26.  $f(-1) + g(-1)$