

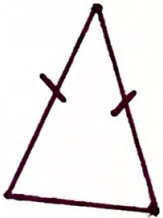
HW 5-2
Triangles

Unit 5

Int 1

Draw a triangle that satisfies each set of conditions. Then classify the triangle. Please use a ruler to help you measure and draw straight lines.

- 1) A triangle with three acute angles and 2 congruent sides.
- 2) A triangle with one right angle and no congruent sides.
- 3) A triangle with three acute angles and no congruent sides
- 4) A triangle with one obtuse angle and two congruent sides.



Classify by sides:

isosceles Δ _____

scalene Δ _____

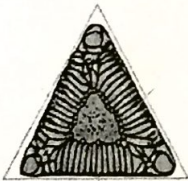
Classify by angles:

Acute Δ _____

Acute Δ _____

Classify each of the marked triangles by angles and by sides.

5)



• Acute Δ
• Equilateral Δ

8)



• Acute Δ
• Isosceles Δ

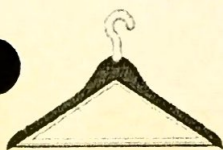
6)



9)



7)



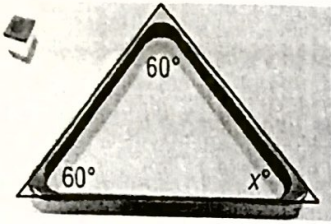
• Obtuse Δ
• Isosceles Δ

10)



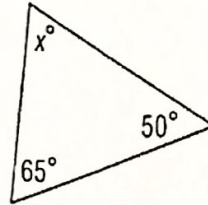
Find the value of x .

11)



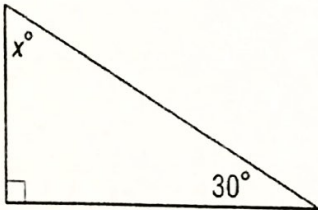
$x = 60$

17)

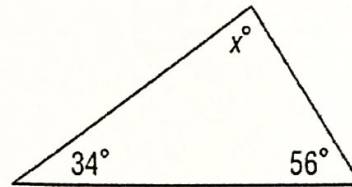


$x = 65$

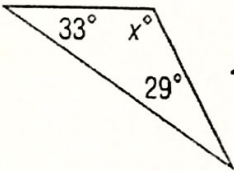
12)



18)

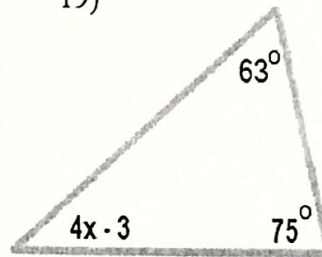


13)



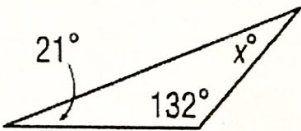
$x = 118$

19)

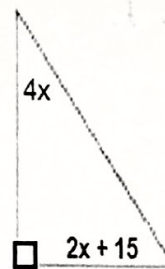


$x = 11.25$

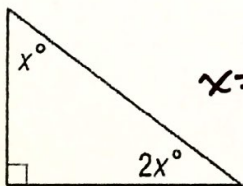
14)



20)

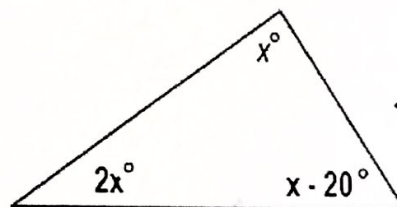


15)



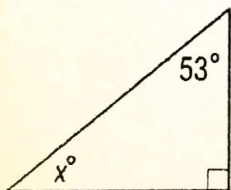
$x = 30$

21)



$x = 50$

16)



Given the figure below, solve for the missing angle measurements.

22) $m\angle a = 55^\circ$

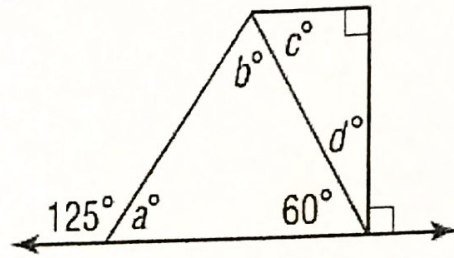
23) $m\angle b = 65^\circ$

24) $m\angle c = 60^\circ$

25) $m\angle d = 30^\circ$

Did in class

Must Have
work to
prove.



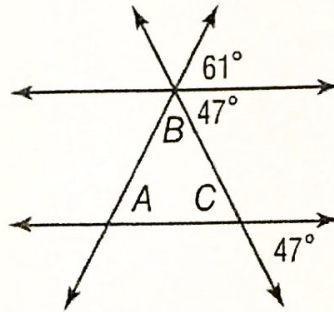
THE REST are EXTRA CREDIT!!

Given the figure below, solve for the missing angle measurements.

26) $m\angle B$

27) $m\angle C$

28) $m\angle A$



29) Find the value of $\angle NLR$.

