Name: KEY **Date:** _____ **Period:** _____

Unit 4 – Day 1 – 4 Review

Multiple Choice Section:

1. Is it possible to have a triangle(s) that is obtuse and isosceles at the same time?

a) Yes b) No c) Not enough Information

2. Is it possible to have a triangle(s) that is scalene and equilateral at the same time?

a) Yes b) No c) Not enough Information

3. Is it possible to have triangle(s) that have two right angles?

a) Yes b) No c) Not enough Information

4. It is possible to have an angle of a triangle that is 179 degrees.

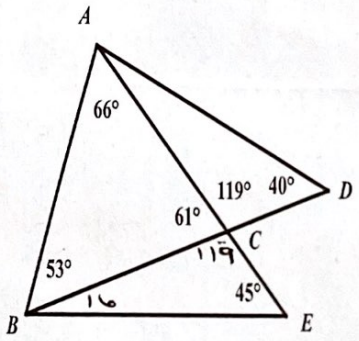
a) Yes b) No c) Not enough Information

5. Given the diagram to the right, which of the following could be described as acute? Select all that apply.

a) ΔABC d) ΔADB

b) ΔACD e) ΔEBA

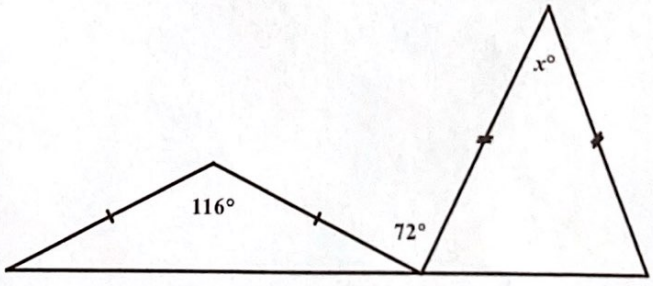
c) ΔCEB f) None of them



6. What is x?

a) $x = 26$ b) $x = 76$

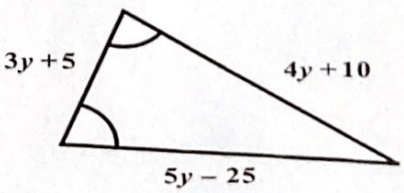
c) $x = 32$ d) $x = 28$



7. What is y?

a) $y = 35$ b) $y = -5$

c) $y = 15$ d) $y = 18.83$



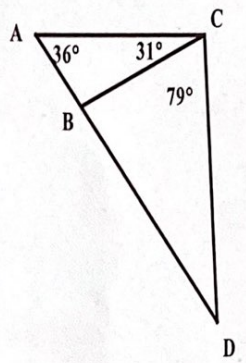
8. Find $m\angle ADC$

a) $m\angle ADC = 113$

b) $m\angle ADC = 34$

c) $m\angle ADC = 22$

d) $m\angle ADC = 67$



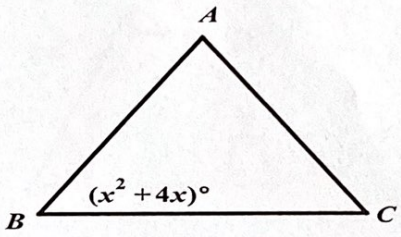
9. Given this is an equilateral triangle, solve for x.

a) $x = 6$

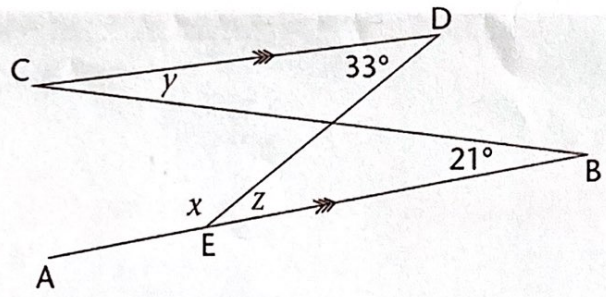
b) $x = 10$

c) $x = -10$

d) $x = 60$



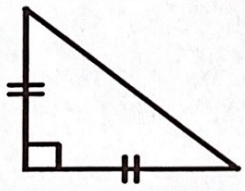
10. Find the value of x, y, and z based on the parallel lines given.



$x = 147$
$y = 21$
$z = 33$

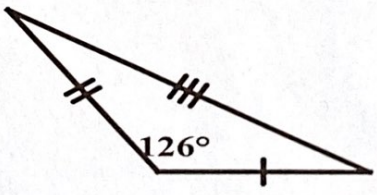
Classify each triangle by its angles and sides.

11.



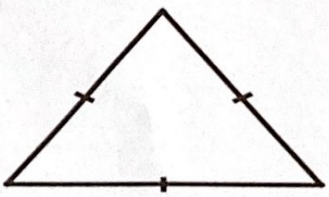
Right
Isosceles

12.



Obtuse
Scalene

13.



Equilateral
(and Equiangular,
Acute)

Draw the following (if possible).

14. Obtuse Scalene Triangle

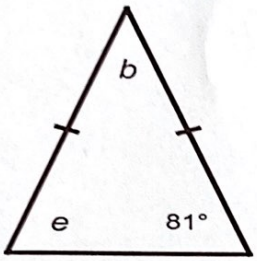
15. Isosceles Acute Triangle

16. Scalene Equiangular Triangle

Not Possible

Label the following triangles by their sides and angles. Then find the following.

17.



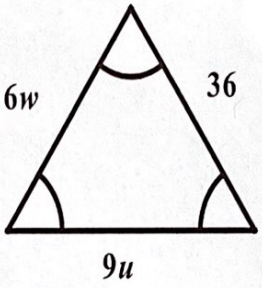
Acute Isosceles

$b = 18$ $e = 81$

Triangle Name: _____

$e =$_____ $b =$_____

18.



Equiangular Equilateral

$w = 36$

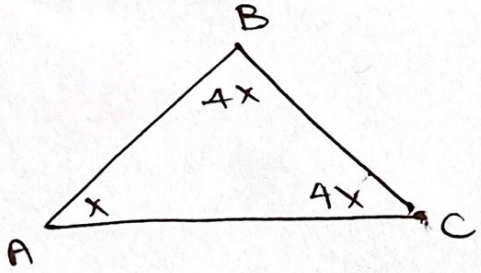
$u = 4$

Triangle Name: _____

$w =$_____ $u =$_____

Find the measure of all 3 angles. DRAW THE TRIANGLES

19. $m\angle A = x°, m\angle B = 4x°, m\angle C = 4x°$

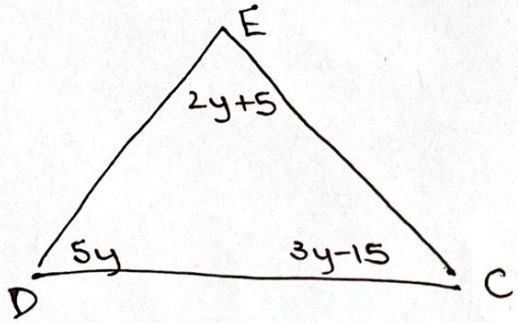


$m\angle A = 20°$

$m\angle B = 80°$

$m\angle C = 80°$

20. $m\angle D = (5y)°, m\angle E = (2y + 5)°, m\angle C = (3y - 15)°$



$m\angle D = 95°$

$m\angle E = 43°$

$m\angle C = 42°$