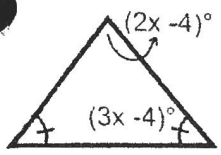
Unit 3 Quiz Review **Geometry**

Directions: Classify the triangle by its angles and sides.



X = 24

Acute Isosceles

Directions: Write the triangle angles and sides in order from least to greatest.

2) $m\angle A = (x - 15)^\circ$ 75°
$m\angle B = 90^\circ$
$m\angle C = (2x - 165)^\circ$ 15°

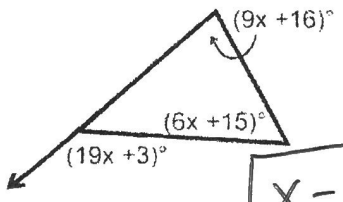
X = 90

∠C, ∠A, ∠B

$\overline{AB}$, $\overline{BC}$, $\overline{AC}$

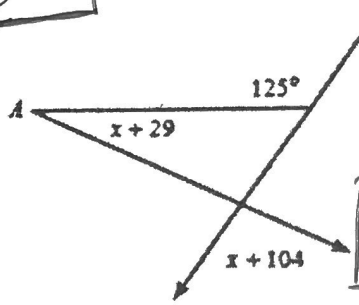
Directions: Solve for x.

3)



X = 7

4)



X = 149

Directions: Determine if the following sides can make a triangle.

5) ~~5, 6, 7~~ 8, 6, 7
6 + 7 > 8
Yes!

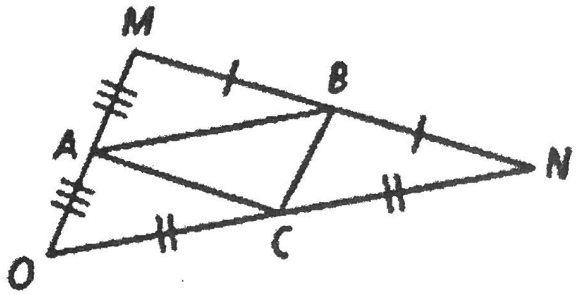
6) 1, 1, 2
1 + 1 ≯ 2
Not possible!

Directions: Determine the range of values for the third side of a triangle if the following lengths are two sides.

7) 7, 12
5 < X < 19

8) 12, 14
2 < X < 26

Directions: Use the figure to solve each problem.



9) $\overline{MN} \parallel$? $\overline{AC}$

10) What midsegment is parallel to $\overline{MO}$?
$\overline{CB}$

11) If MB = 2x – 5 and BN = 19, what is the value of x?
X = 12

12) If AB = 17.5, what is NO?
35

13) If $m\angle AOC = 37^\circ$, what is $m\angle BCN$?
37°

14) If $m\angle BCN = 48^\circ$, what is $m\angle CBA$?
48°

15) If MO = 32, MN = 45, and ON = 81, what is the perimeter of ΔABC?
79 units