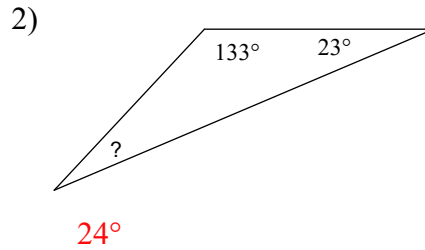
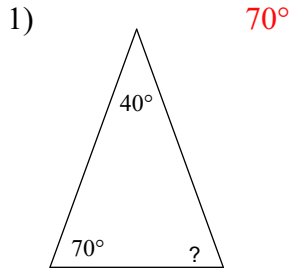
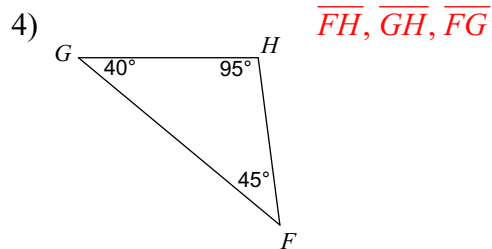
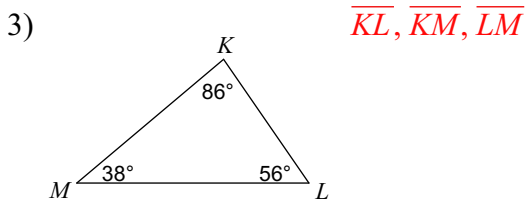


Day 1 - WARM UP and Notes

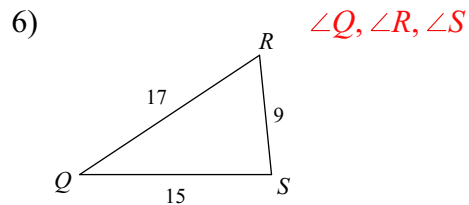
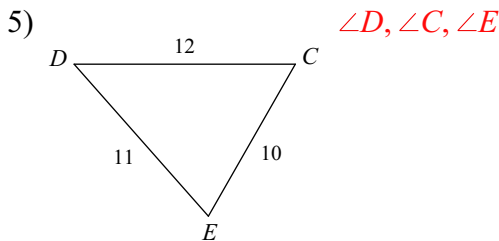
- A) Find the missing angle
- B) Tell me how did you know this?
- C) Classify the triangle (based on angle measures only)



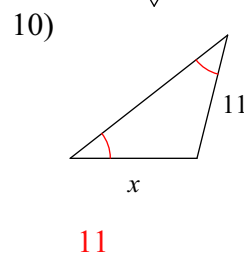
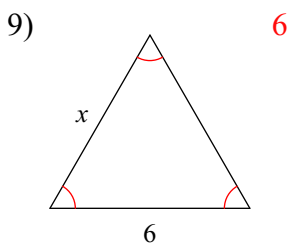
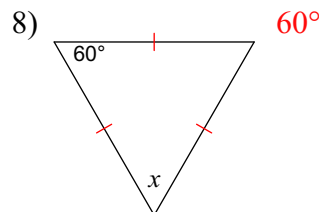
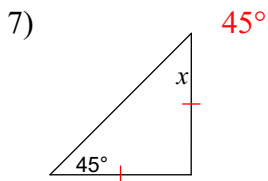
- A) Order the sides of each triangle from shortest to longest.
- B) Tell me how did you know this?



- A) Order the angles of each triangle from smallest to biggest.
- B) Tell me how did you know this?



- A) Find the value of x .
- B) Classify the triangle based on its (side lengths only)
- C) Tell me how did you know this?



BONUS

A) State if the three numbers can be the measures of the sides of a triangle (yes or no)

B) Tell me how did you know this?

11) 6, 8, 17

No

12) 8, 7, 2

Yes

In Class Notes - Secondary 2 Honors Triangles Unit - DAY 1

13) Triangle Classifications based on Side Lengths:

equilateral, isosceles, scalene

14) Triangle Classifications based on Angle Measures:

right, obtuse, acute

15) Triangles Inequality Conjecture:

any 2 sides added together must be greater than the third side; $A + B > C$ $A + C > B$ $B + C > A$

16) Triangles Side-Angle Conjecture:

The smallest side length of a triangle is opposite the smallest angle measure and the biggest side length of a triangle is opposite the biggest angle measure.

17) Special Properties of Isosceles Triangles:

2 equal angle measures which are also opposite 2 congruent side lengths.
Also all 3 angles add to 180°

18) Special Properties of Equilateral Triangles:

All 3 sides lengths are congruent. All 3 angle measures are congruent. Also all 3 angles add to 180° , so all 3 angles are always 60°

19) Special Properties of Scalene Triangles:

All 3 angles add up to 180°

20) Triangles Sum Theorem:

All 3 angles add up to 180° for any triangle, no matter its angle classification or its side length classification.

21) Definition of Similarity:

Shapes that have proportional corresponding sides and equal corresponding angles.