Notes Pythagorean Theorem to Classify

Name: _____ Date: _____ Period: _____

Learning Target: _____

_____

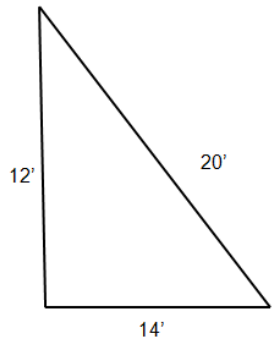
For all triangles with c as the longest side, Pythagorean Theorem says…

when a triangle is right _____

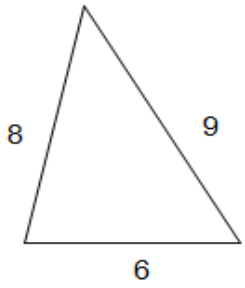
when a triangle is acute _____

when a triangle is obtuse _____

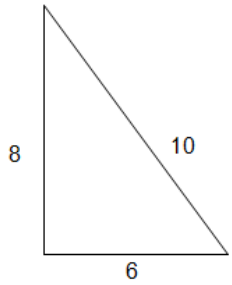
Example 1: Classify the triangle



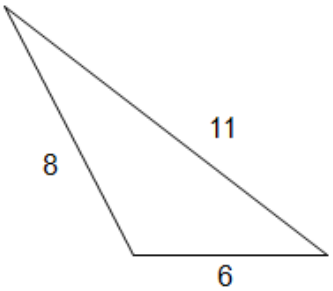
Example 2: Classify the triangle



Example 3: Classify the triangle



Example 4: Classify the triangle



Show me you can do it!

Practice 1: Classify the Triangle
Side lengths: 10,24,26

Practice 2: Classify the Triangle
Side lengths: 25,24,10

Practice 3: Classify the Triangle
Side lengths: 10,24,27

Practice 4: Classify the Triangle
Side lengths: 29,20,22

Practice 5: Classify the Triangle
Side lengths: 42,40,9

Practice 6: Classify the Triangle
Side lengths: 41,40,9,

Practice 7: Classify the Triangle
Side lengths: 15,15,15

Practice 8: Classify the Triangle
Side lengths: 9,9,16

Show me you know it!

1. If all the sides are the same what will be the classification of the triangle? _____

   How do we know? _____

2. What would be a hypotenuse value that makes a triangle that has side lengths 15 and 20…

   Acute:_____ Right: _____ Obtuse: _____