

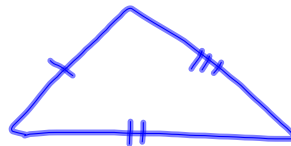
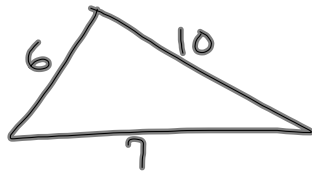
11-4-13  
1<sup>st</sup> Geo

## Classifying Triangles

### Side length

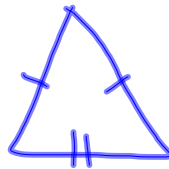
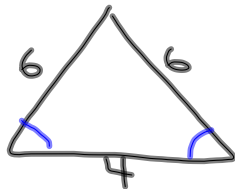
#### Scalene Triangle

- none of the sides are = in length



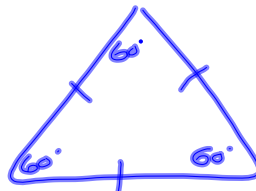
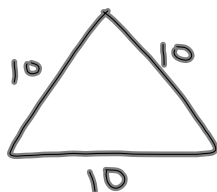
#### Isosceles Triangle

- 2 sides are = in length



#### Equilateral Triangle

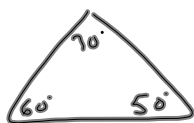
- All sides are = in length



Classify  $\triangle$  by angles

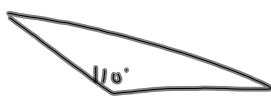
Acute  $\triangle$

All angles are less than  $90^\circ$



Obtuse  $\triangle$

One angle is greater than  $90^\circ$



Right  $\triangle$

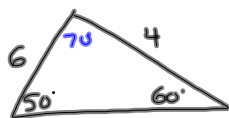
One angle is exactly  $90^\circ$



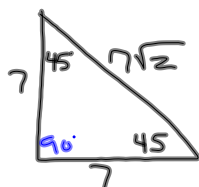
What type of  $\triangle$  do we have?



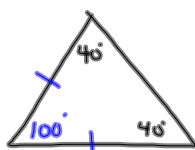
Obtuse Isosceles



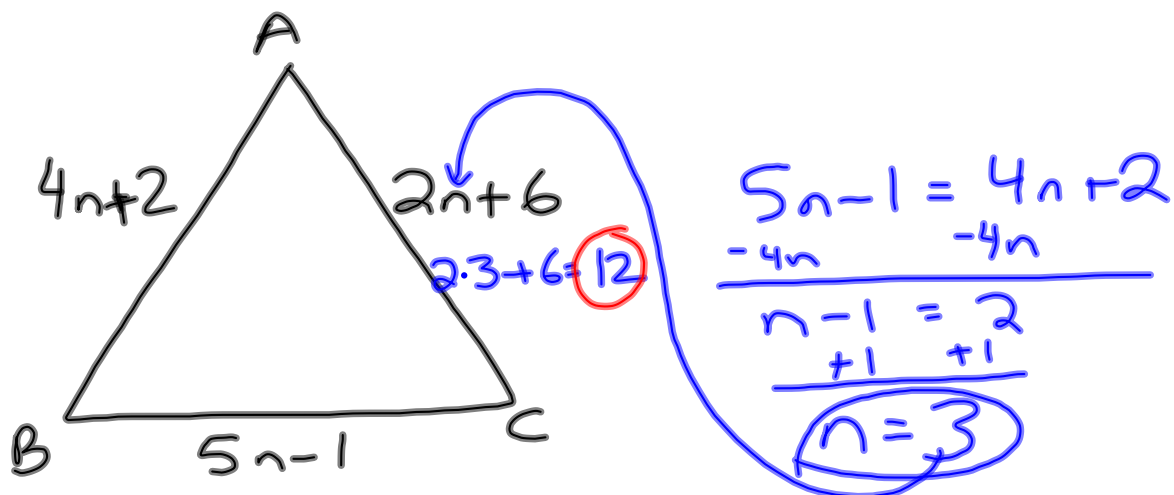
Acute Scalene



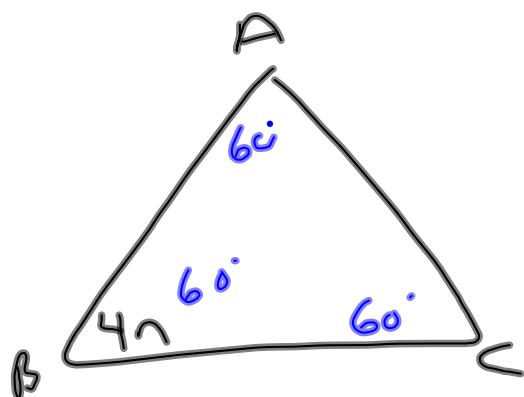
Right Isosceles



Obtuse Isosceles



$\triangle ABC$  is an isosceles  $\triangle$  with  $\overline{AB} \cong \overline{BC}$ . What is  $AC$ ?



If  $\triangle ABC$  is an equilateral  $\triangle$ , what is  $n$ ?

$$\frac{4n}{4} = \frac{60}{4}$$

$$n = 15$$