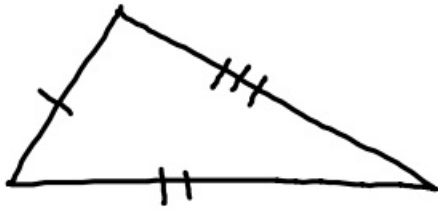


11-4-19 2nd Geo

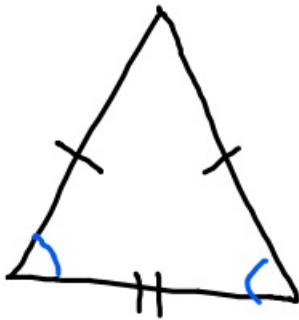
Triangles

Side lengths



Scalene

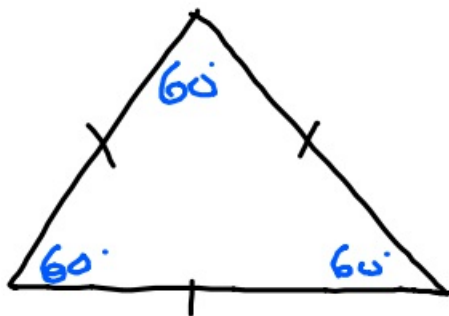
No sides are equal in length and thus no angles will be =.



Isosceles

2 sides equal in length

2 angles across from those sides are =



Equilateral

All sides are = in length

All angles = (60)

Classify by angle measurement



Acute - no angles
over 90°

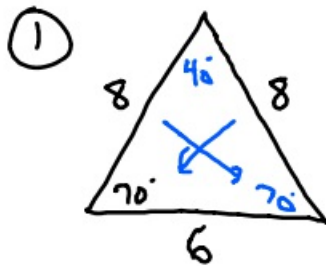


Obtuse - one angle
over 90°

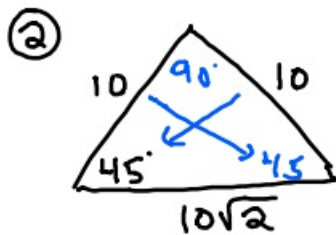


Right - one angle
equals 90°

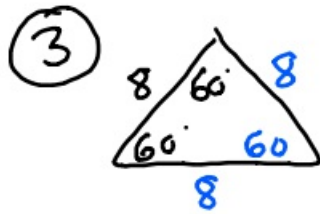
Classify



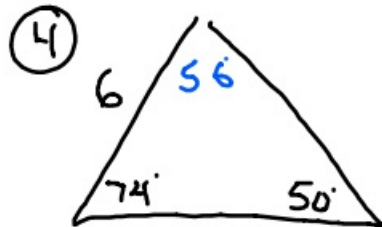
Acute Isosceles



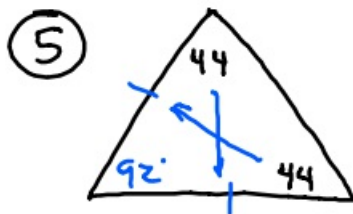
Right Isosceles



Acute Equilateral



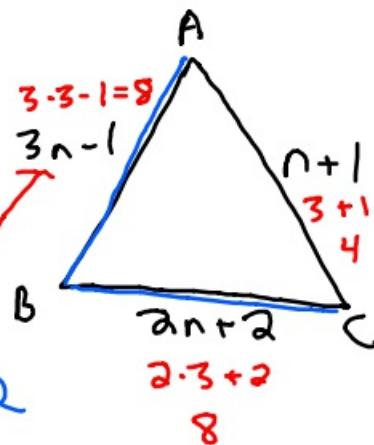
Acute Scalene



Obtuse Isosceles

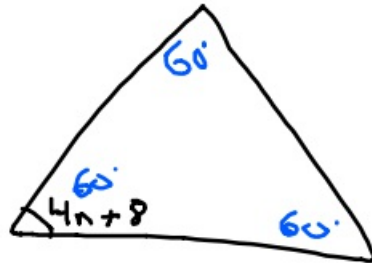
⑥ $\triangle ABC$ is an isosceles \triangle with $\overline{AB} \cong \overline{BC}$. Find

$$\begin{aligned} AB &= 8 \\ AC &= 4 \\ BC &= 8 \end{aligned}$$



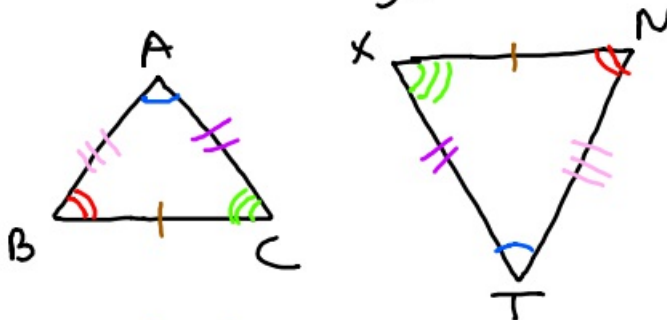
$$\begin{array}{r} 3n-1 = 2n+2 \\ -2n \quad -2n \\ \hline n-1 = 2 \\ +1 \quad +1 \\ \hline n = 3 \end{array}$$

⑦ $\triangle ABC$ is an equilateral triangle. Find n .



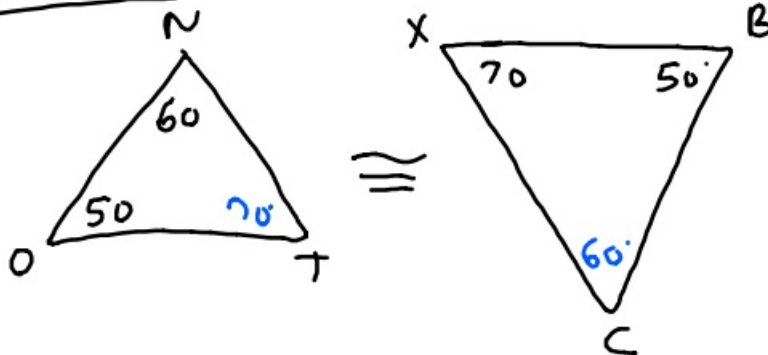
$$\begin{aligned}
 4n+8 &= 60 \\
 -8 &\quad -8 \\
 \hline
 4n &= 52 \\
 \frac{4n}{4} &= \frac{52}{4} \\
 n &= 13
 \end{aligned}$$

Congruent Triangles



$$\triangle ABC \cong \triangle TNX$$

Problem



$$\triangle NOT \cong \triangle \underline{CBX}$$