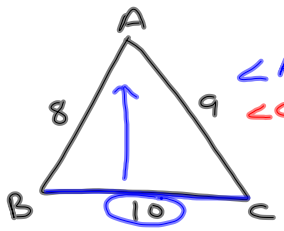
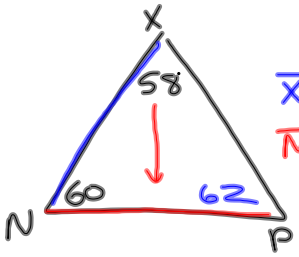
12-3-13
1st Geo

Which angle is largest in △ below?

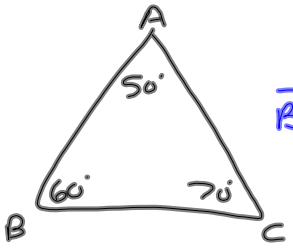


∠A is largest ∠
∠C is smallest ∠



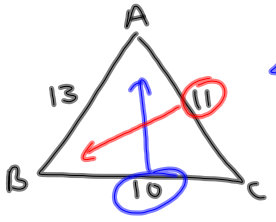
$\overline{XN}$ is longest side
$\overline{NP}$ is smallest side

Put sides in order from smallest to largest.

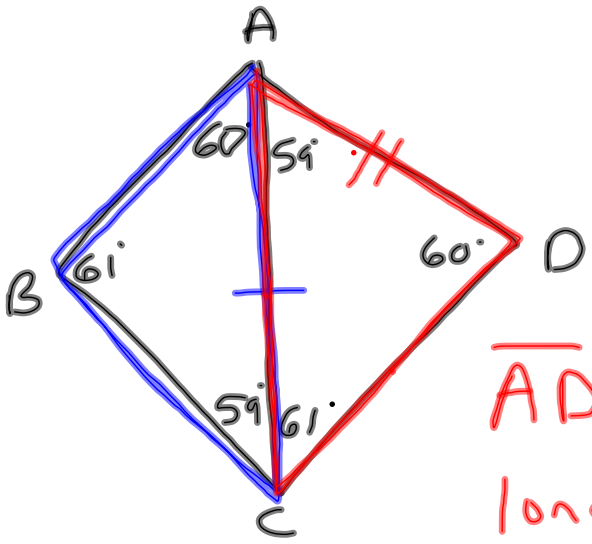


$\overline{BC}$, $\overline{AC}$, $\overline{AB}$

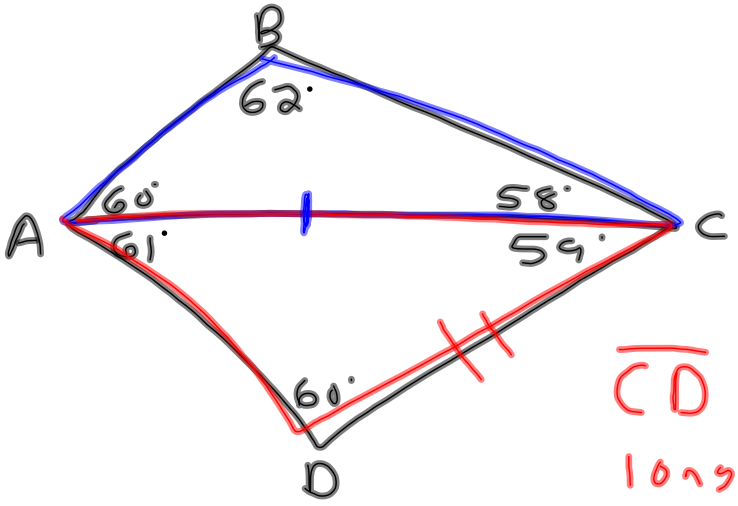
Put angles in order from smallest to largest.



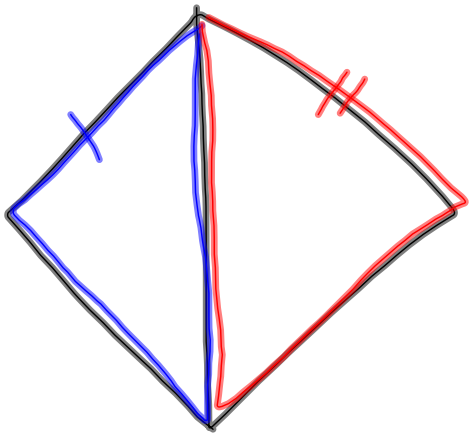
∠A ∠B ∠C



$\overline{AD}$ is longest side

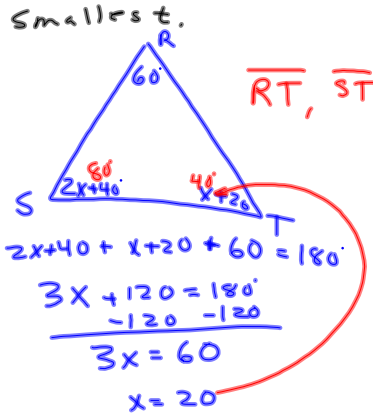


$\overline{CD}$ is longest side



Can't determine who is largest.

In $\triangle RST$, $\angle R = 60^\circ$, $\angle S = 2x+40$, $\angle T = x+20$. Put the sides in order from largest to smallest.



$\overline{RT}, \overline{ST}, \overline{SR}$

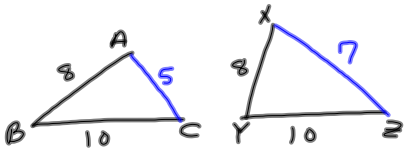
$2x+40 + x+20 + 60 = 180$

$3x + 120 = 180$

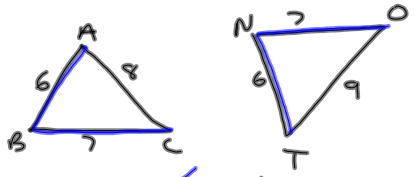
$-120 \quad -120$

$3x = 60$

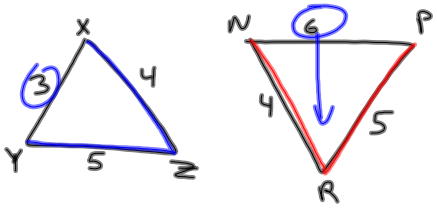
$x = 20$



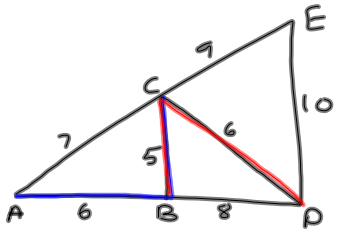
$\angle B < \angle Y$



$\angle B < \angle N$



$\angle Z < \angle R$



$\angle ABC \leq \angle BCD$