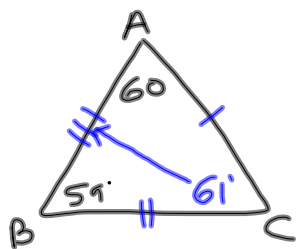


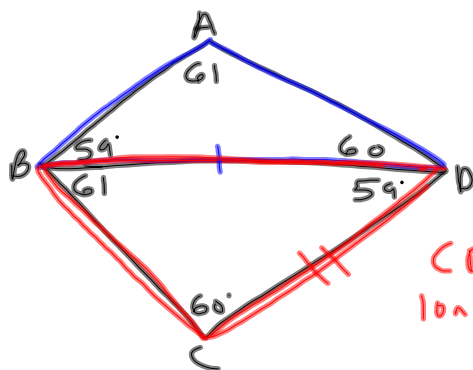
11-19-13
5th Geo



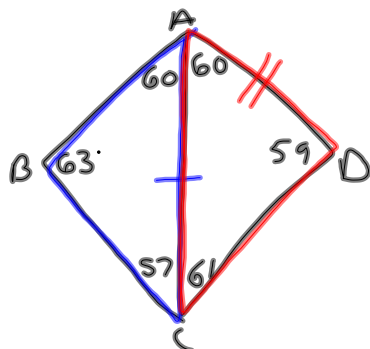
List sides in order
from largest
to smallest.

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

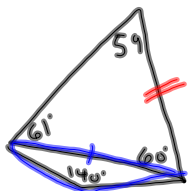
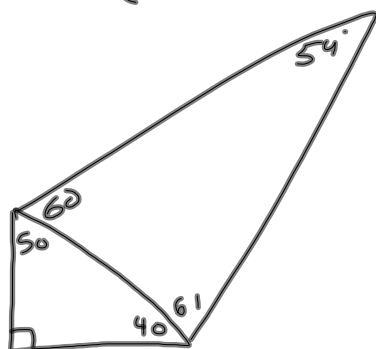
$\overline{AB} > \overline{BC} > \overline{AC}$



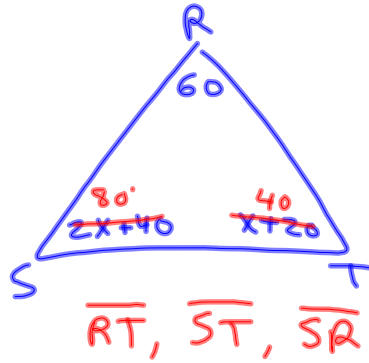
CD is
longest leg.



AD is longest
leg.



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



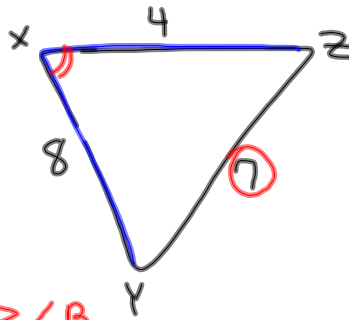
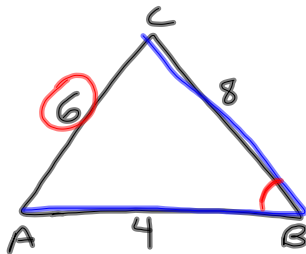
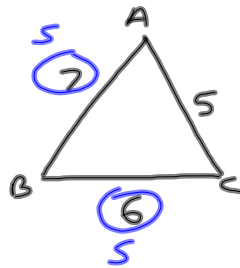
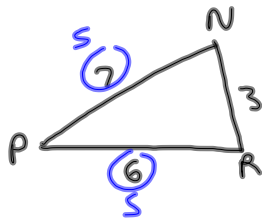
$$60 + 2x + 40 + x + 20 = 180$$

$$3x + 120 = 180$$

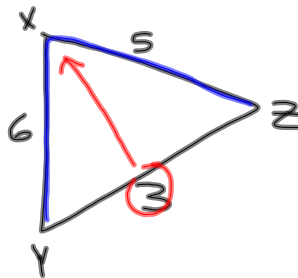
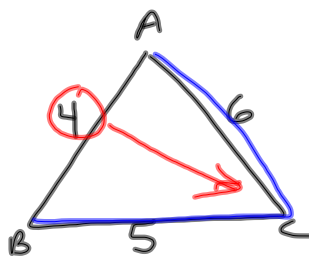
$$\underline{-120 \quad -120}$$

$$3x = 60$$

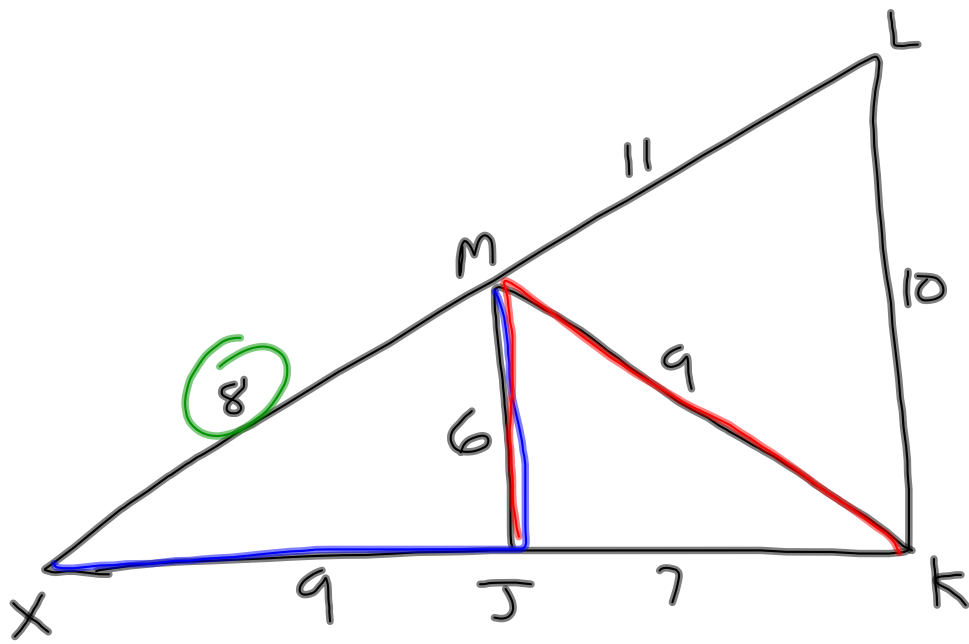
$$x = 20$$



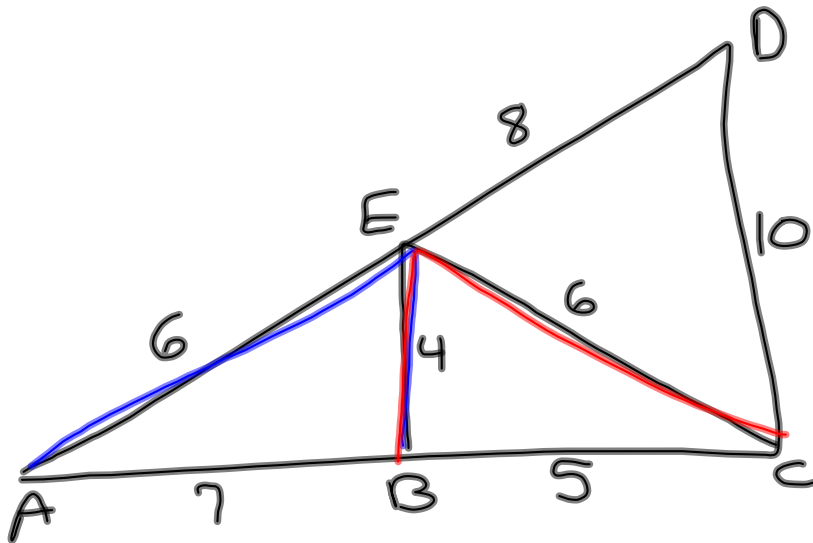
$$\angle X > \angle B$$



$$\angle C > \angle X$$



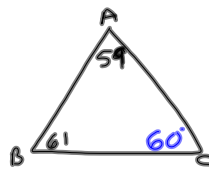
$$\angle XJM > \angle JMK$$



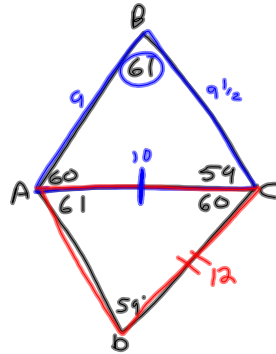
What can you conclude?

$$\angle AEB > \angle BEC$$

11-19-13
6th Geo

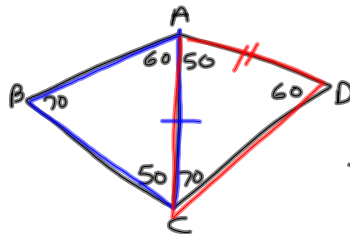


Put the sides in order from largest to smallest.
 $\overline{AC} > \overline{AB} > \overline{BC}$



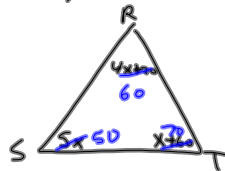
Which side is longest?

\overline{CD}



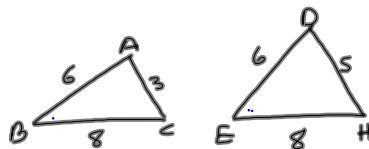
Longest side is \overline{AD}

In $\triangle RST$, $\angle R = 4x + 20$,
 $\angle S = 5x$, and $\angle T = x + 60$.
Put the sides in order from longest to shortest.

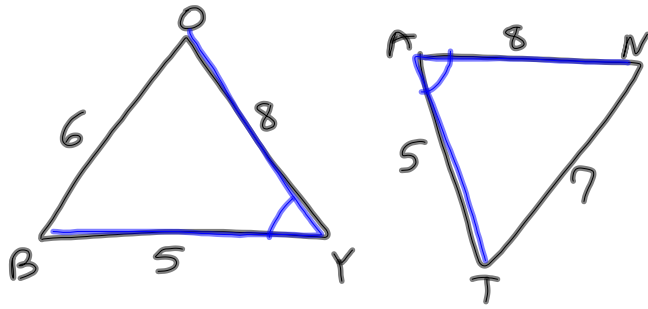


$$\begin{aligned} 5x + 4x + 20 + x + 60 &= 180 \\ 10x + 80 &= 180 \\ -80 &= -80 \\ \hline 10x &= 100 \\ x &= 10 \end{aligned}$$

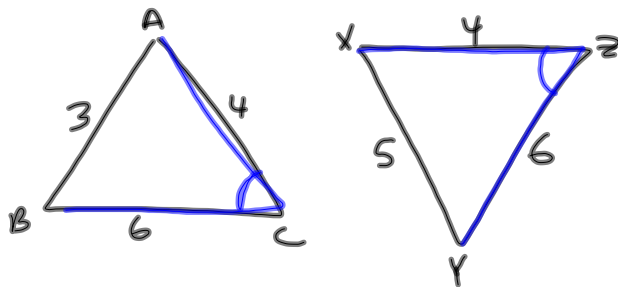
$\overline{RS}, \overline{ST}, \overline{RT}$



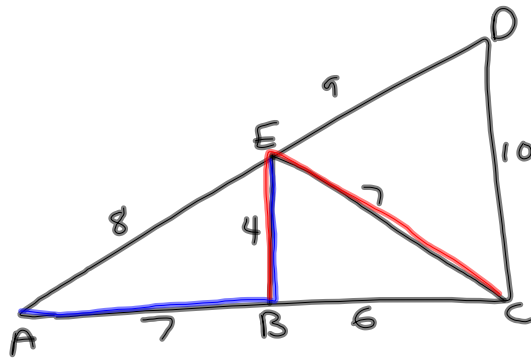
$\angle E > \angle B$



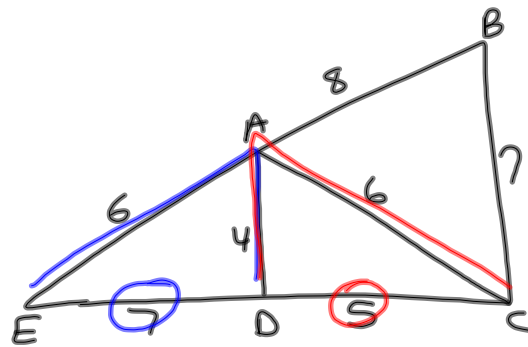
$$\angle A > \angle Y$$



$$\angle Z > \angle C$$



$$\angle ABE > \angle BEC$$



$$\textcircled{1} \angle DEA < \angle BCA$$

$$\textcircled{2} \angle EAD > \angle CAD$$