

12-2-13
5th Geo

8 questions like

can this be a Δ

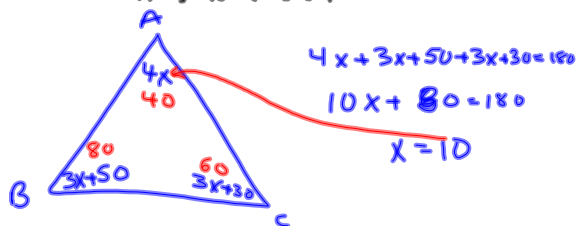
① $\boxed{3,4}$ 6 1 7 Yes

② $\boxed{8,8}$ 16 0 16 No

③ $\boxed{5,5}$ 5 0 10 Yes

④ In ΔABC $\angle A = 4x$, $\angle B = 3x + 50$
and $\angle C = 3x + 30$.

Which side is longest and
which is shortest?



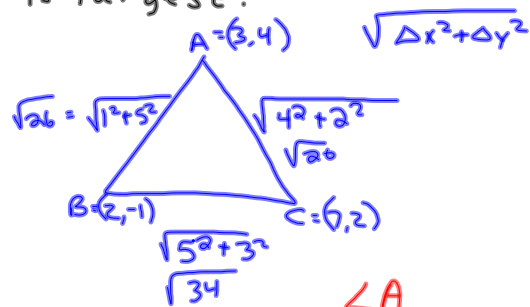
Largest = \overline{AC}

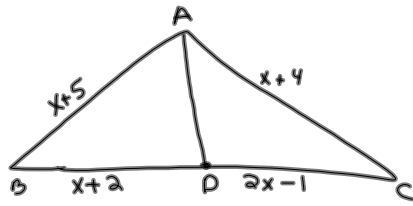
Smallest = \overline{BC}

If two sides of a Δ have
measurements of 2 and 8, what
could the third leg be?

$$6 < m < 10$$

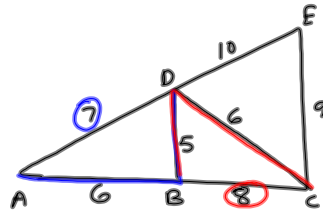
In ΔABC , $A = (3, 4)$ $B = (2, -1)$
and $C = (7, 2)$. Which angle
is largest?



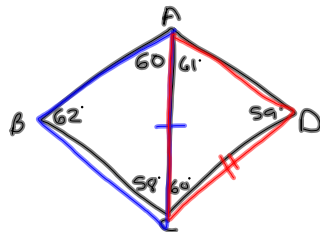
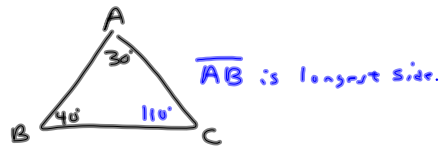


\overline{AD} is median of $\triangle ABC$. What is AC?

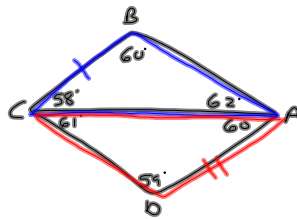
$$\begin{array}{r} x+2 = 2x-1 \\ -x \quad -x \\ \hline 2 = x-1 \\ +1 \quad +1 \\ \hline 3 = x \end{array} \quad \therefore AC = x+4 = 3+4 = 7$$



$\angle ABD < \angle CDB$

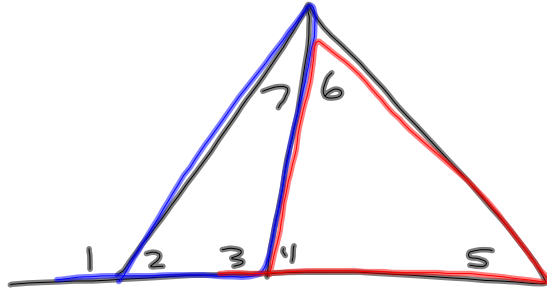


Which side is longest? \overline{CD}

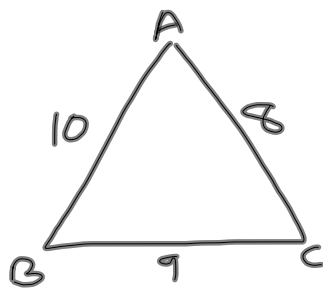


Which side is longest?

Can't be determined

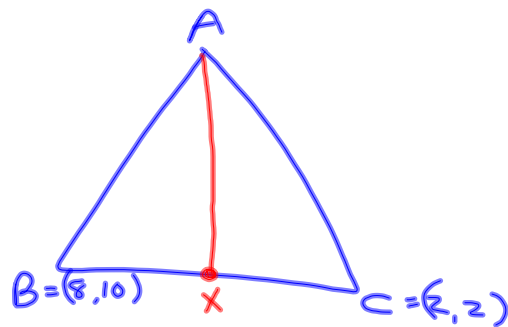


$\angle 1$ is greater than which angles?
 $\angle 3, \angle 7$ $\angle 5, \angle 6$



Which angle is largest? $\angle C$

In $\triangle ABC$, $A = (4, 6)$, $B = (8, 10)$
 and $C = (2, 2)$. If \overline{AX} is a
 median of $\triangle ABC$, what is the
 coordinate value of X ?



$$X = \left(\frac{8+2}{2}, \frac{10+2}{2} \right)$$

$$(5, 6)$$

12-2-13

6th Geo

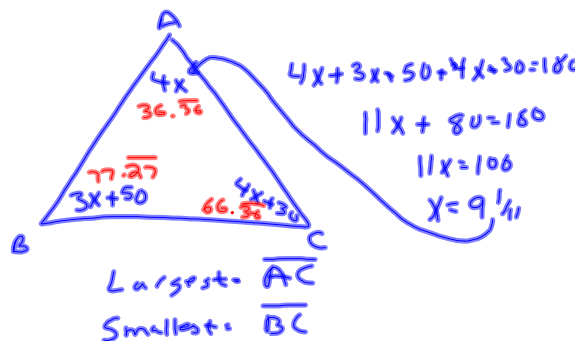
S-12 will be
can the given set be a Δ

- ① $\boxed{3, 4, 6}$ 1 7 Yes
- ② $\boxed{5, 5, 10}$ 0 10 No
- ③ $\boxed{2, 2, 2}$ 0 4 Yes

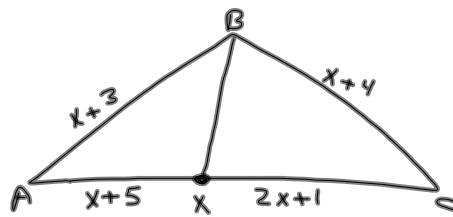
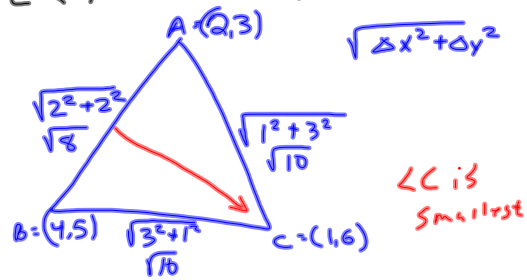
④ If 2 sides of a Δ have measurements of 8 and 7, what could the 3rd leg be?

- Ⓐ $1 < m < 15$
- Ⓑ $1 \leq m \leq 15$
- Ⓒ $1 > m > 15$
- Ⓓ $1 < m > 15$

⑤ In ΔABC , $\angle A = 4x$
 $\angle B = 3x + 50$, and $\angle C = 4x + 30$.
What is the longest side?
Shortest side?



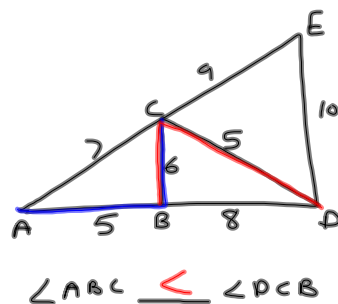
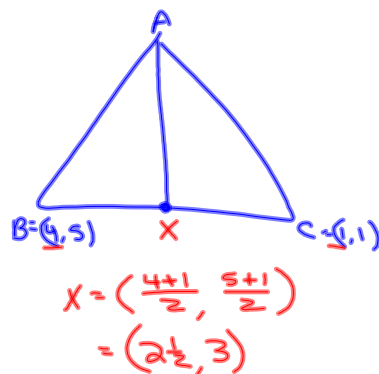
In $\triangle ABC$, $A = (2, 3)$ $B = (4, 5)$
 $C = (1, 6)$. Which angle is smallest?

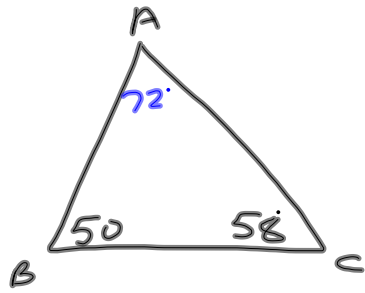


If \overline{BX} is median, what is BC ?

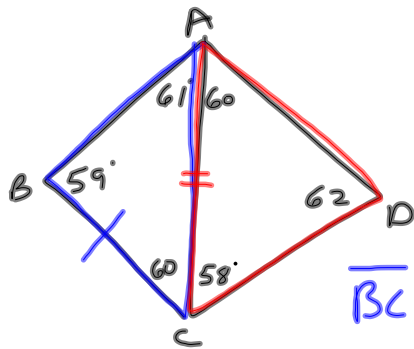
$$\begin{array}{r} x+5 = 2x+1 \\ -x \quad -x \\ \hline 5 = x+1 \\ -1 \quad -1 \\ \hline 4 = x \end{array} \quad \begin{array}{l} BC = x+4 \\ = 4+4 \\ = 8 \end{array}$$

In $\triangle ABC$, $A = (2, 3)$ $B = (4, 5)$
 and $C = (1, 1)$. If \overline{AX} is
 median of $\triangle ABC$, what are the
 coordinate values of X ?

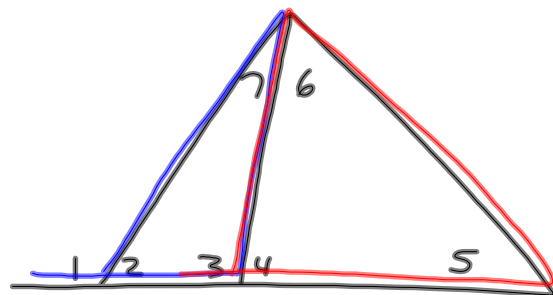
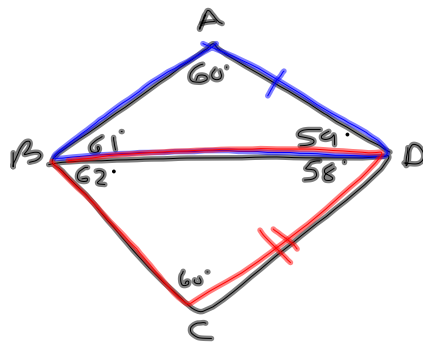




\overline{BC} is longest side



\overline{BC} is largest over all.



Which angles are less than $\angle 1$?
 $\angle 3, \angle 7$ $\angle 5, \angle 6$