

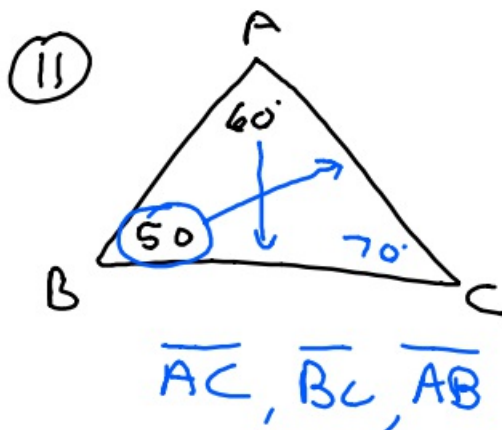
11-21-19 2nd Geo

Give third side possibilities.

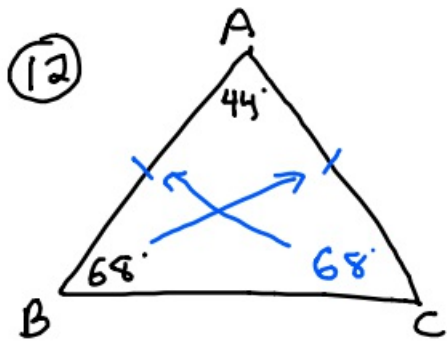
- ① 2, 5 $3 < m < 7$
- ② 4, 4 $0 < m < 8$
- ③ 9, 11 $2 < m < 20$
- ④ 3, 1 $2 < m < 4$
- ⑤ 8, 2 $6 < m < 10$

Could these be the legs of a Δ ?

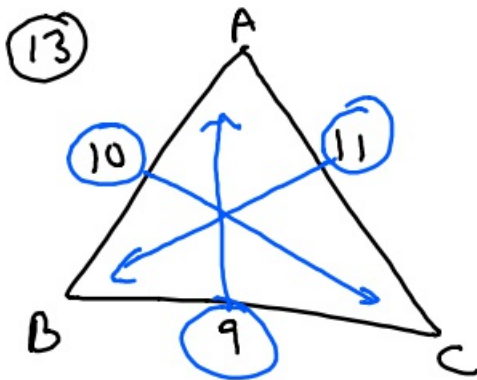
- ⑥ (4, 8), 10 4 12 Yes
- ⑦ (2, 2), 2 Eq. \checkmark $0 < m < 4$ Yes
- ⑧ (3, 1), 4 $2 < m < 4$ NO
- ⑨ (5, 5), 15 $0 < m < 10$ NO
- ⑩ (6, 6), 12 $0 < m < 12$ NO



Put sides in
order from
smallest to
largest.

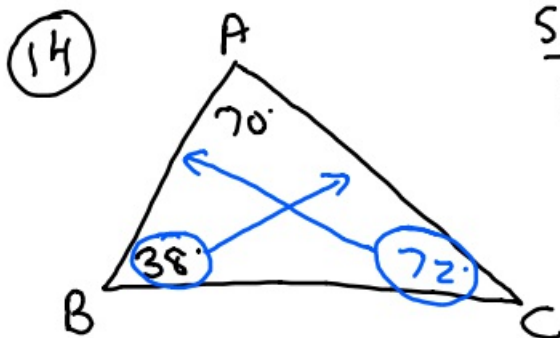


Smallest = \overline{BC}
 Largest = $\overline{AB} + \overline{AC}$



Put angles in order from smallest to largest.

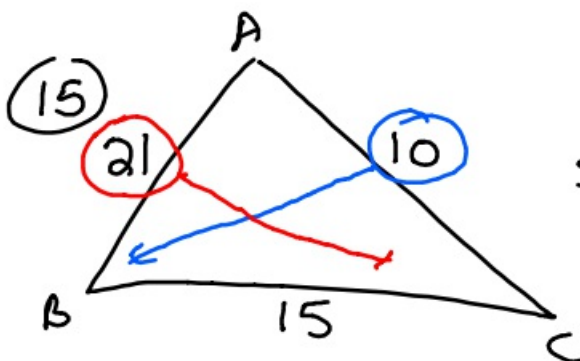
$\angle A, \angle C, \angle B$



Sides

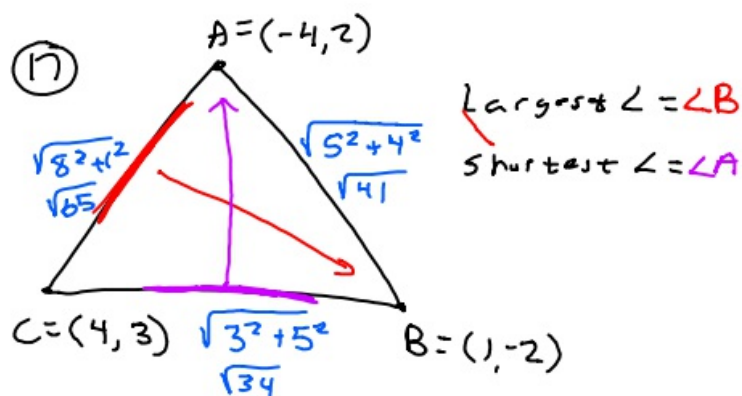
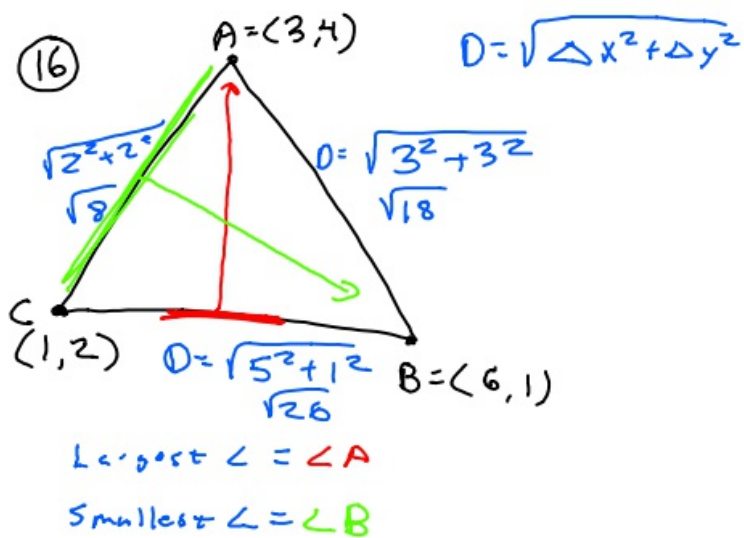
Smallest = \overline{AC}

Largest = \overline{AB}

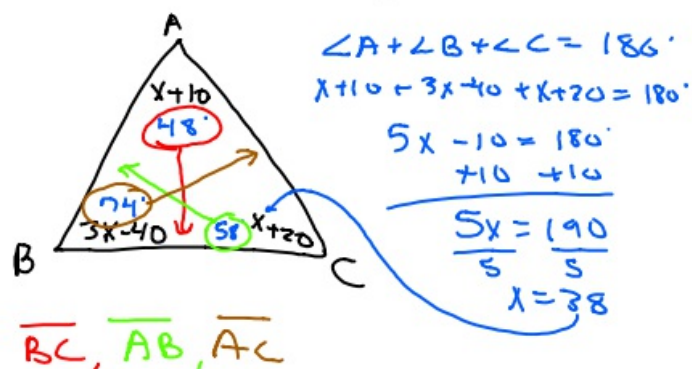


Largest $\angle = \angle C$

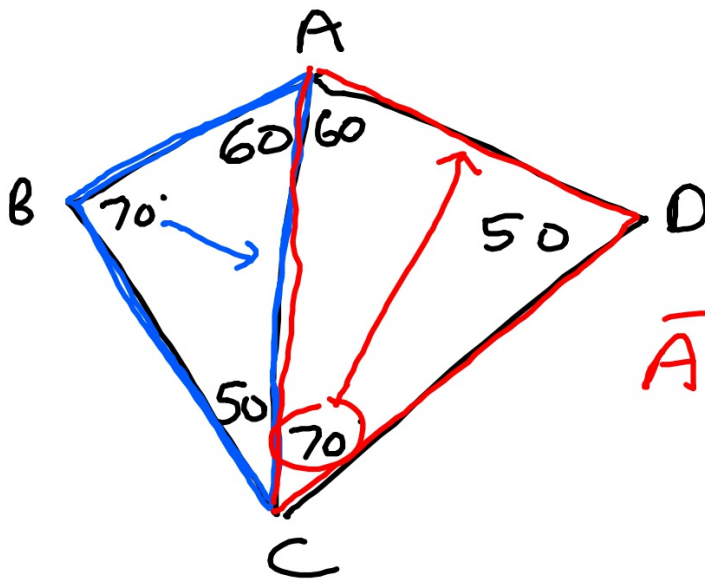
Smallest $\angle = \angle B$



- ⑫ In $\triangle ABC$, $\angle A = x + 10$,
 $\angle B = 3x - 40$, and $\angle C = x + 20$.
 Put the sides in order from
 smallest to largest?



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\overline{AD} is longest