

11-5-18 5th Geo

Ms. Mrs. Miss

Review of Ch. 5

① 2, 8, — $6 < m < 10$
 ~~$6 \leq m \leq 10$~~

② Which can be triangles

a.) $\boxed{4, 4}, 6$ $0-8$ Yes

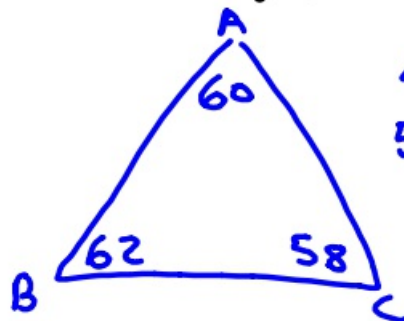
b.) $\boxed{8, 3}, 11$ $5-11$ No

c.) $\boxed{2, 5}, 7$ $3-7$ No

d.) $\boxed{3, 3}, 3$ $0-6$ Yes (Equilateral)

③ In $\triangle ABC$, $\angle A = 5n - 10$,
 $\angle B = 3n + 20$, and $\angle C = 2n + 30$

Put the sides in order
from greatest to least.



$$\angle A + \angle B + \angle C = 180^\circ$$

$$5n - 10 + 3n + 20 + 2n + 30 = 180$$

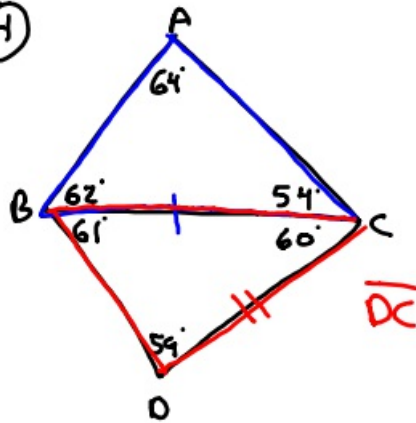
$$10n + 40 = 180$$

$$n = 14$$

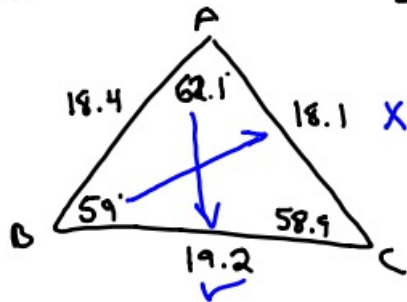
$\overline{AC}, \overline{BC}, \overline{AB}$

Which side is largest?

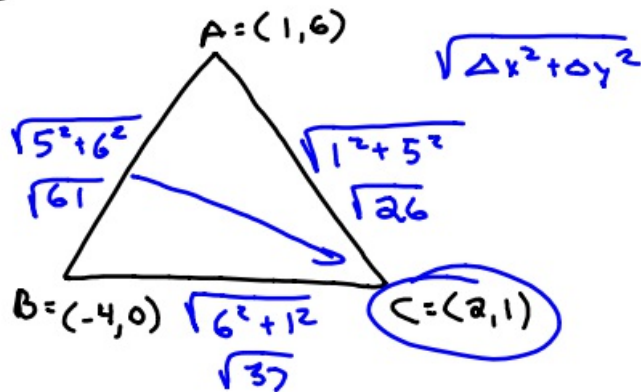
(4)



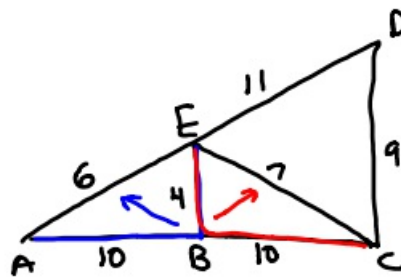
(5) What is wrong?



(6) Which angle is largest?



(7)



$\angle ABE < \angle CBE$

11-5-18 6th Geo

Ms. Miss Mrs.

Ch. 5 Review

① 6, 7, $1 < m < 13$
 ~~$1 \leq m \leq 13$~~

② Which can be triangles?

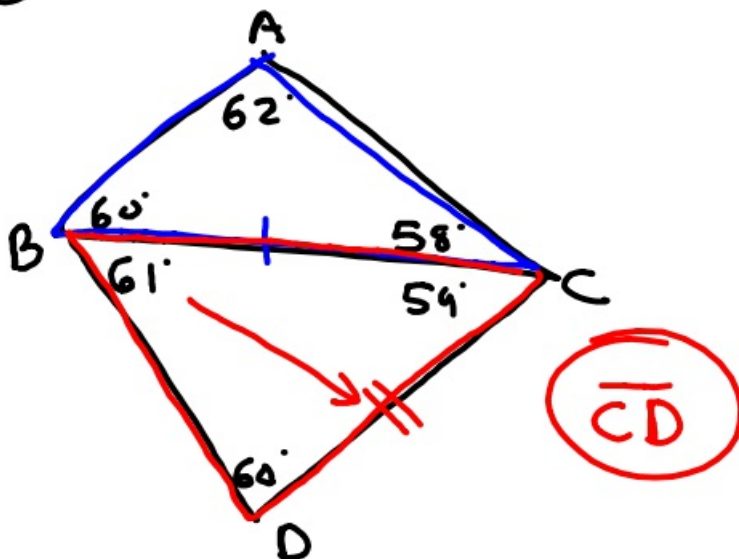
a.) $\boxed{4, 5}$ 3 $1 \leftrightarrow 9$ Yes

b.) $\boxed{2, 6}$ 8 $4 \leftrightarrow 8$ NO

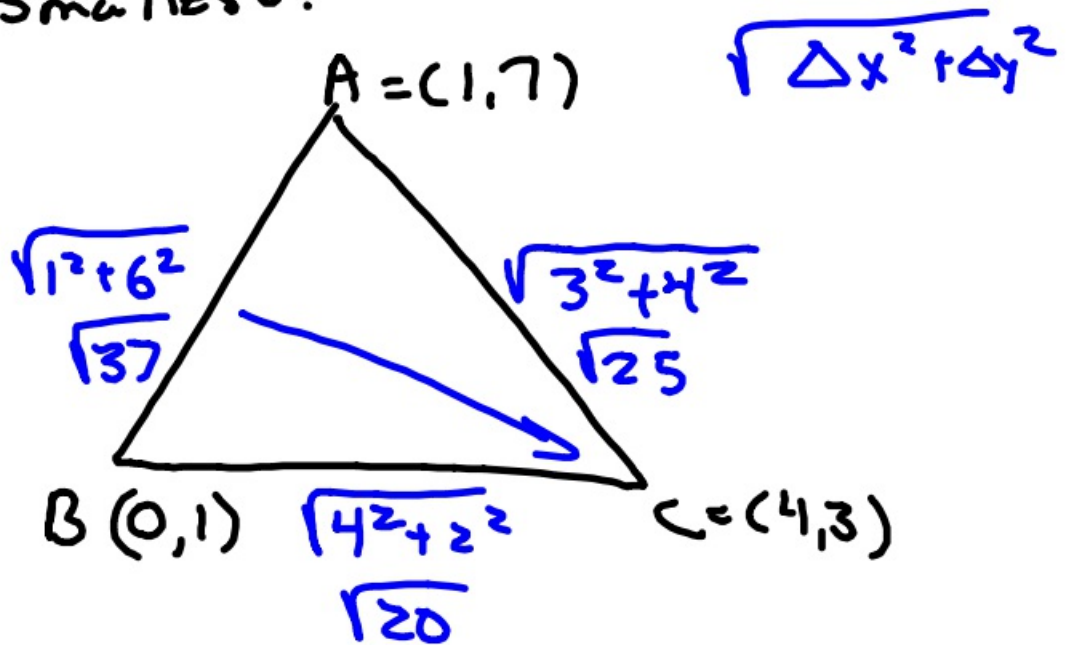
c.) 7, 7, 7 $0 - 14$ Yes (Eq.)

d.) $\boxed{1, 1}$ 8 $0 \leftrightarrow 2$ NO

③ Which side is longest?

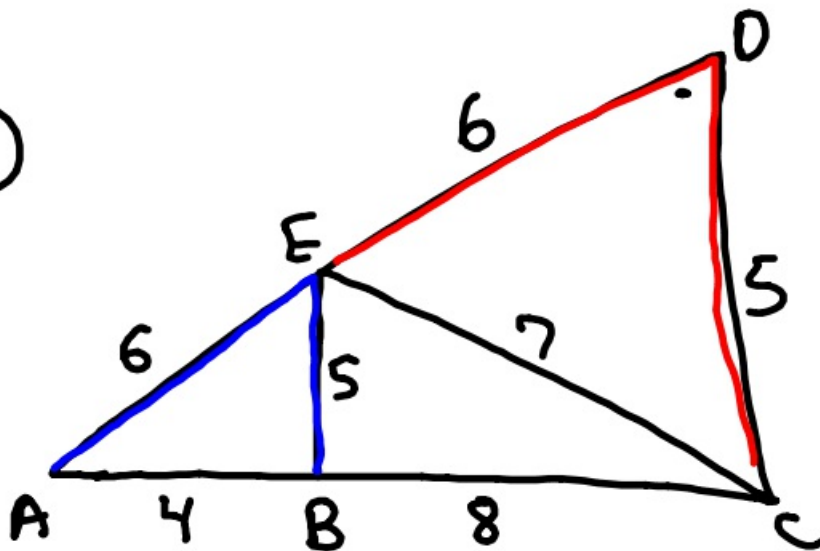


- ④ In $\triangle ABC$, put the angles in order from largest to smallest.



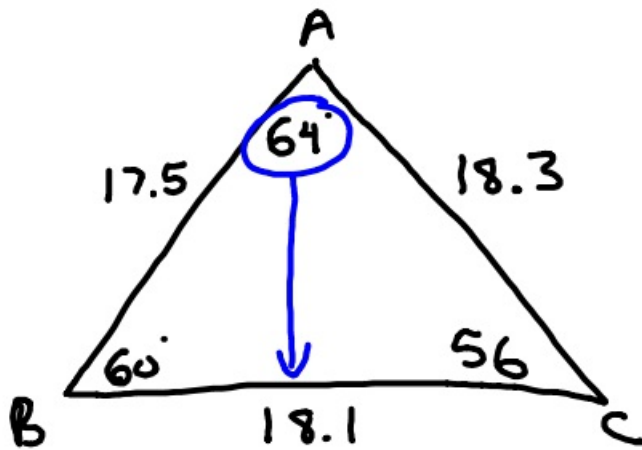
$\angle C, \angle B, \angle A$

- ⑤



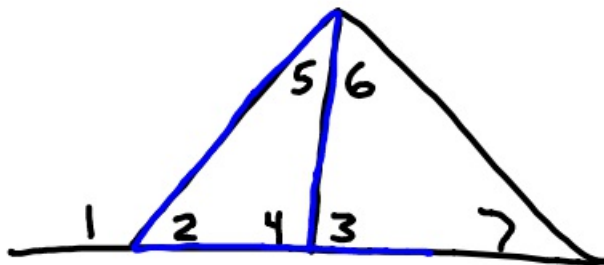
$\angle AEB < \angle EDC$

⑥ What is wrong?

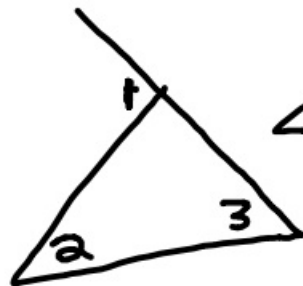


Should be biggest. But it isn't.

⑦ Which angle is smaller than $\angle 3$?

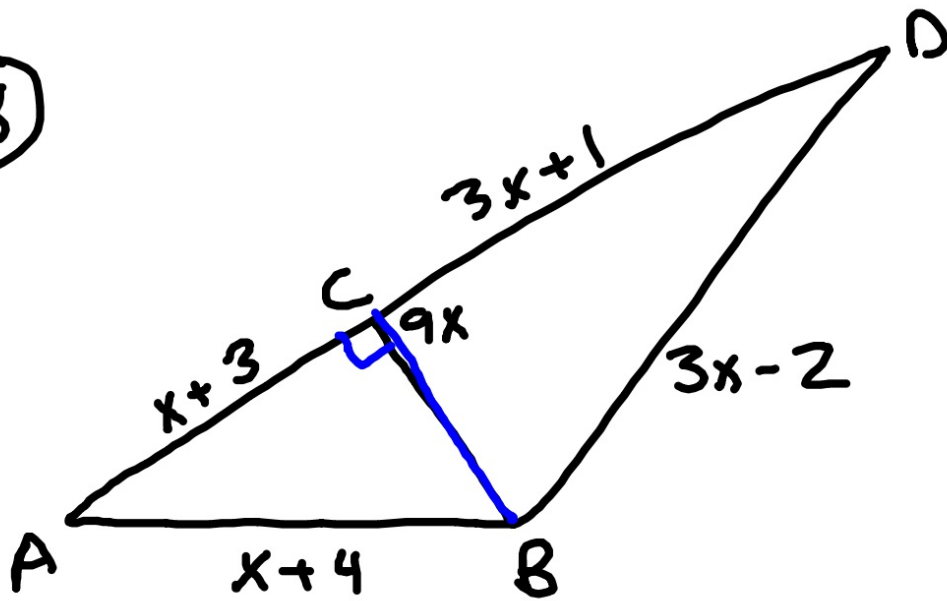


$\angle 2, \angle 5$



$$\angle 1 = \angle 2 + \angle 3$$

8



\overline{BC} is altitude of $\triangle ABD$. What is AB ?

$$9x = 90^\circ$$
$$x = 10$$

$$AB = x + 4$$
$$= 10 + 4$$
$$= 14$$