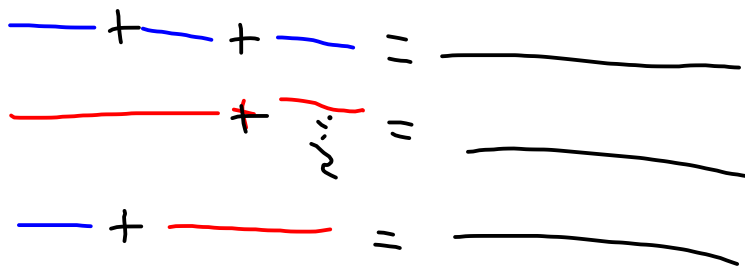
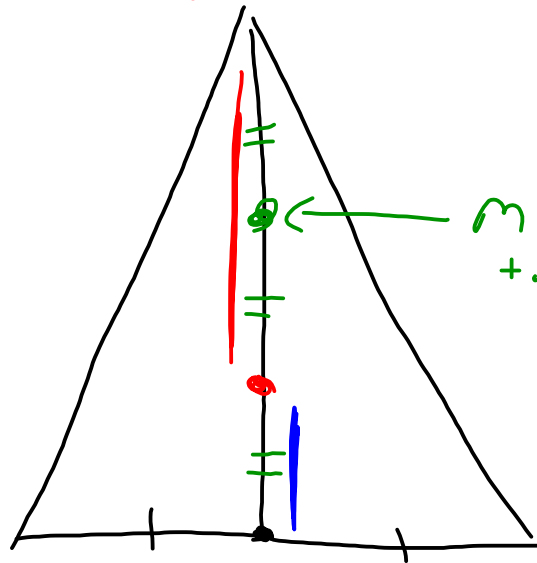
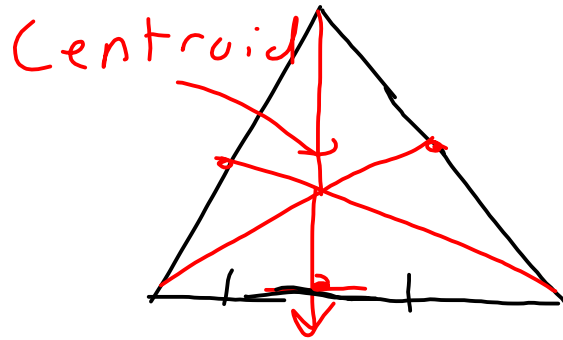
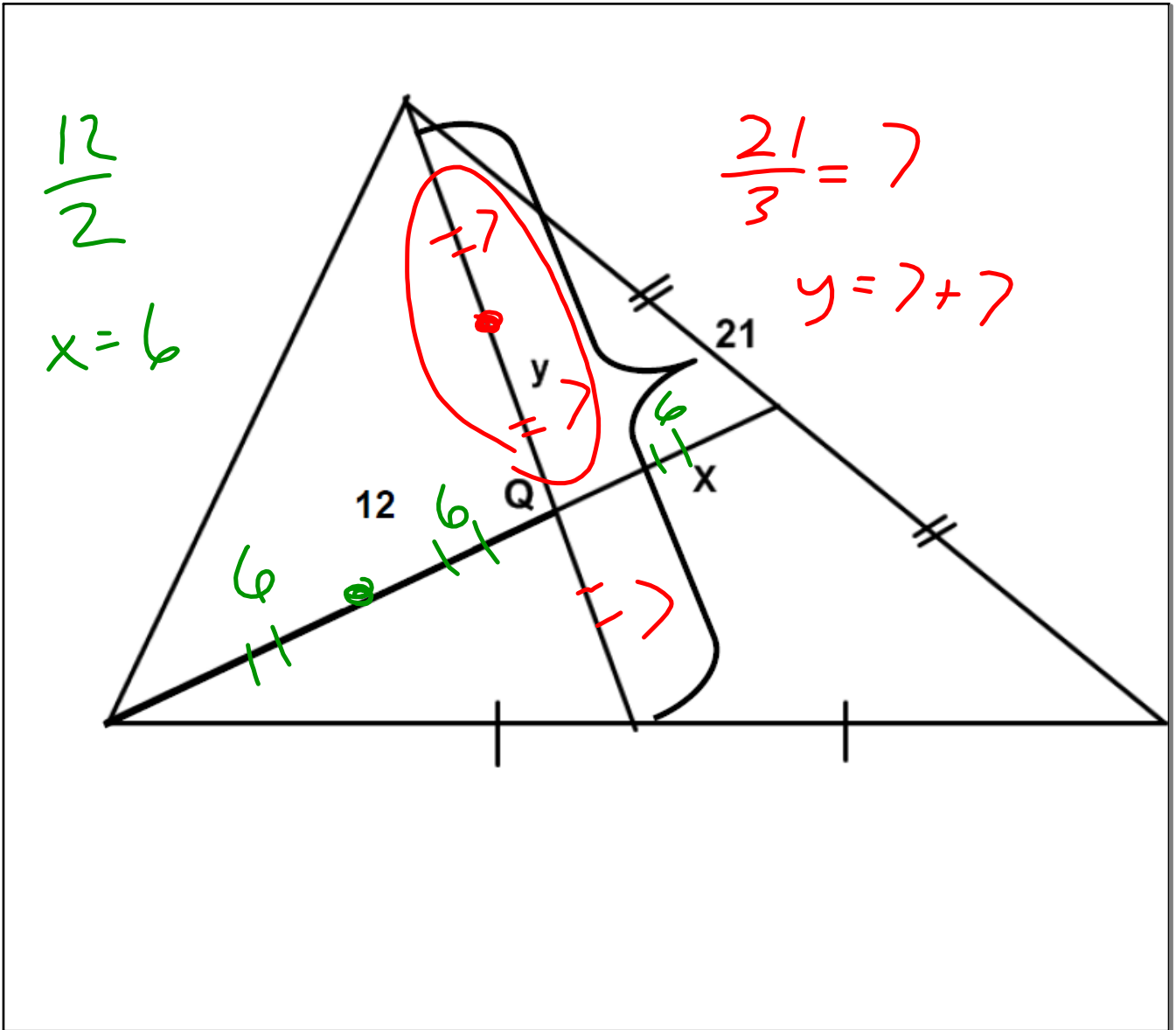


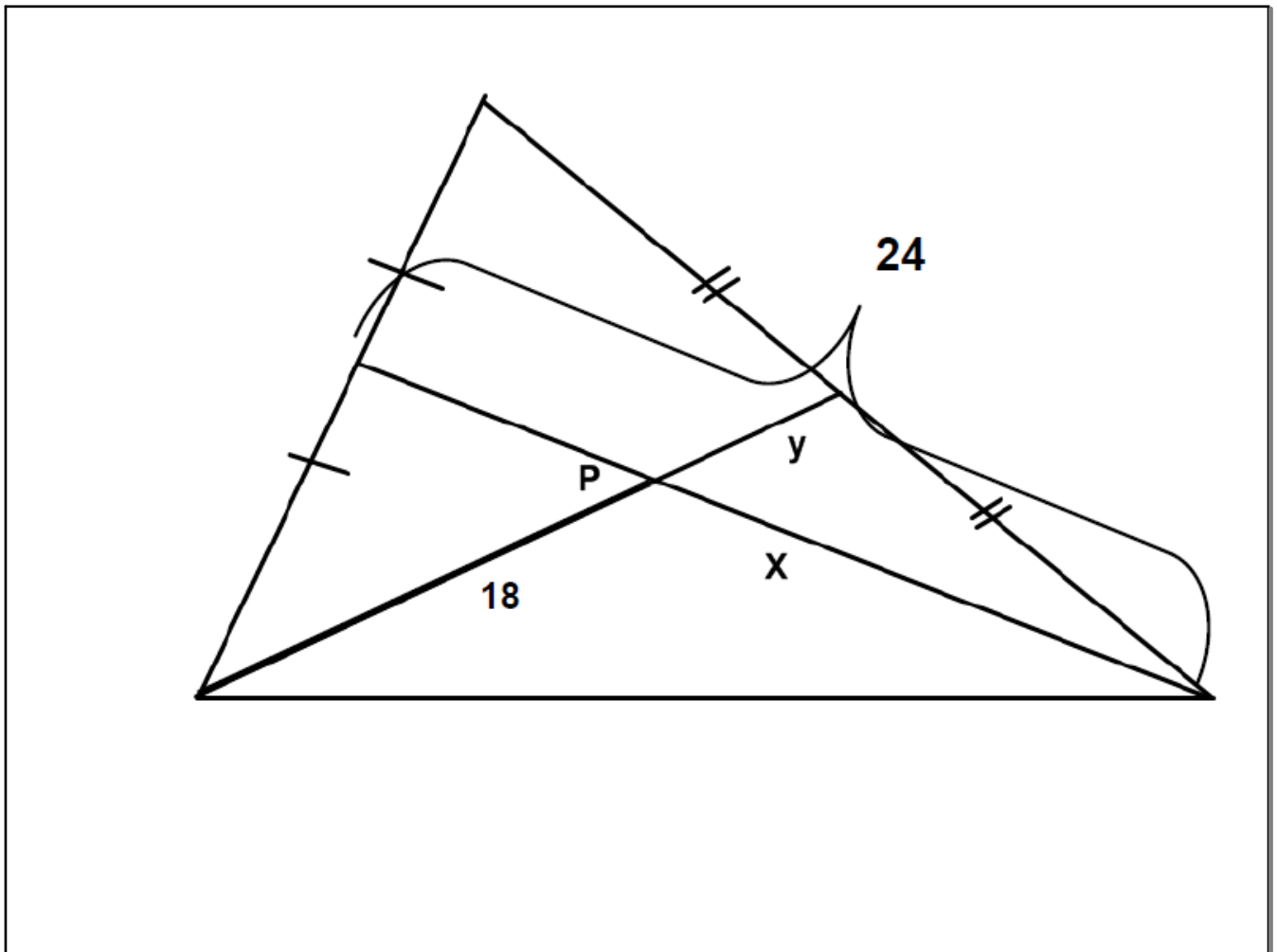
# Medians

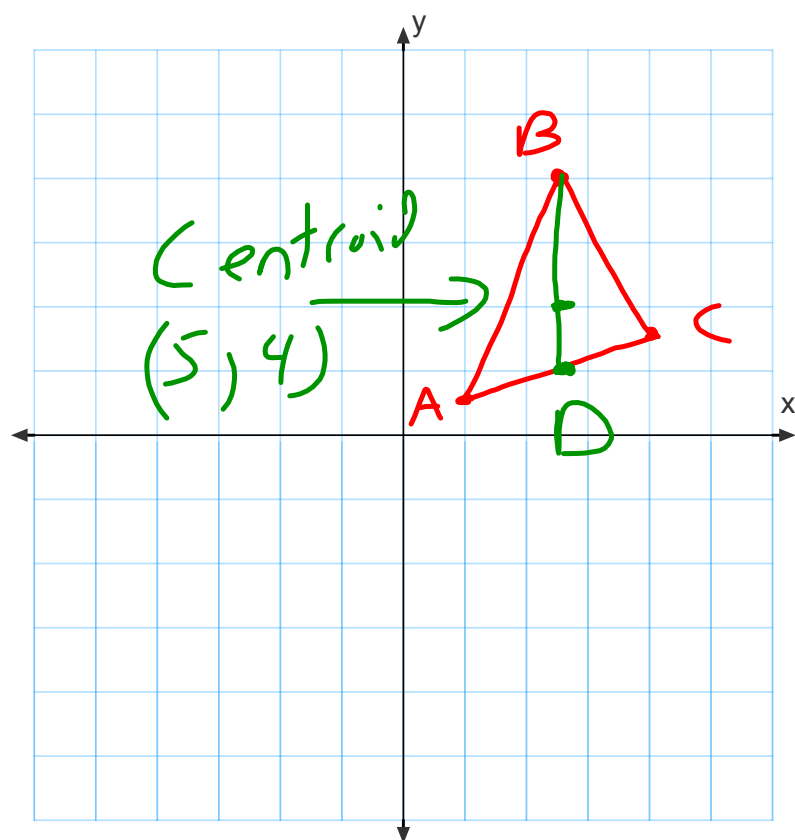
Segment w/ endpoints of vertex to midpoint of opposite side of triangle



$$2(\text{---}) = \text{---}$$







$$\begin{array}{l}
 A(2, 1) \\
 B(5, 8) \\
 \hline
 C(8, 3)
 \end{array}$$

midpt = 5, 2  
 disk  
 BD

3 lengths given  
do they make  
a  $\triangle$

smallest + median > largest

then yes

8, 2, X

①  $8 + 2 > X$

②  $X + 8 > 2$

③  $2 + X > 8$

①  $10 > X$

②  $X < 10$

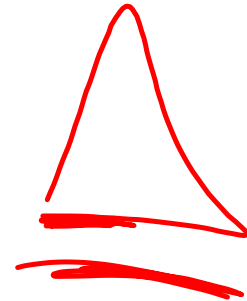
$X > -6$  don't use  
neg distance

③  $X > 6$



$$2 \left( \frac{5x+3}{4} \right) = \frac{7x}{2} - \frac{1}{2}$$

half
whole

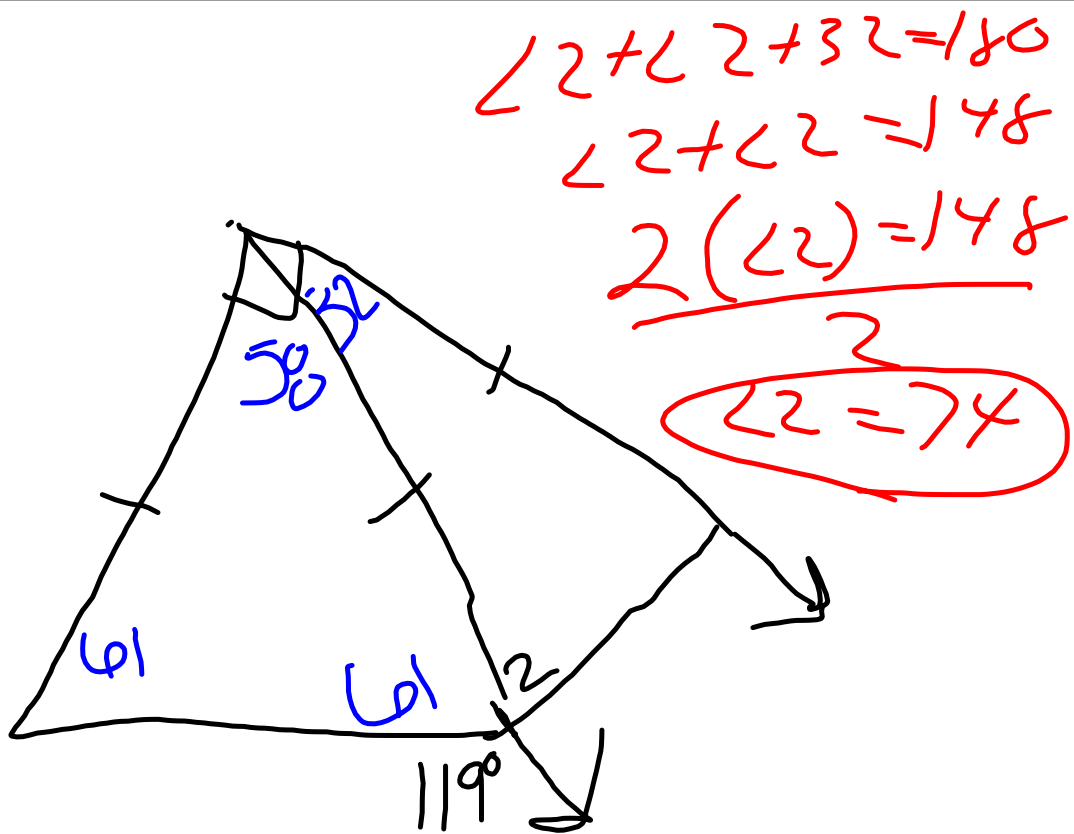


$$2 \left( \frac{5x}{2} + \frac{3}{2} = \frac{7x}{2} - \frac{1}{2} \right)$$

$$5x + 3 = 7x - 1$$

$$2 \left( \frac{5x}{2 \cdot 2} + \frac{3}{2 \cdot 2} \right)$$

one  $\left[ \frac{2 \cdot 5 \cdot x}{2 \cdot 2} \right] + \left[ \frac{2 \cdot 3}{2 \cdot 2} \right]$  two



$$13x - 4 = 74$$

$$\frac{13x = 78}{13}$$

$$x = \frac{78}{13}$$

$$x = 6$$