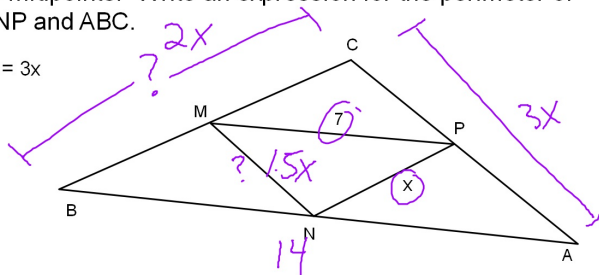


Bellwork Tuesday, February 11, 2014

1. MNP are midpoints. Write an expression for the perimeter of triangles MNP and ABC.

Given: $CA = 3x$



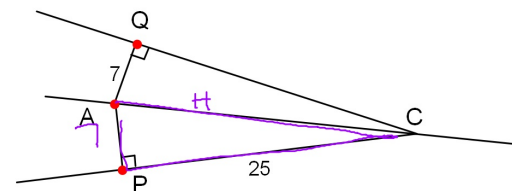
Perimeter of ABC =

$$5x + 14$$

Perimeter of MNP =

$$2.5x + 7$$

2. Given \overrightarrow{AC} bisects $\angle QCP$, find the measure of each.



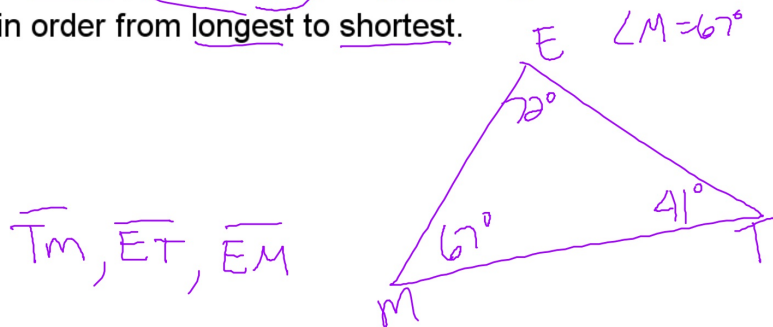
$$QC = 25$$

$$AP = 7$$

$$AC = \sqrt{7^2 + 25^2} = X$$

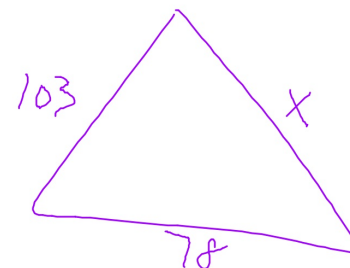
$$X = 25.96$$

3. In $\triangle EMT$, $m\angle E = 72^\circ$ and $m\angle T = 41^\circ$. List the sides in order from longest to shortest.



$\overline{MT}, \overline{ET}, \overline{EM}$

4. Two sides of a triangle are 103cm and 78cm. State the possible lengths of the third side that would form a triangle. Give your answer as a compound inequality.



$$103 + 78 > X$$

$$X + 78 > 103$$

$$X > 25$$

$$25 < X < 181$$