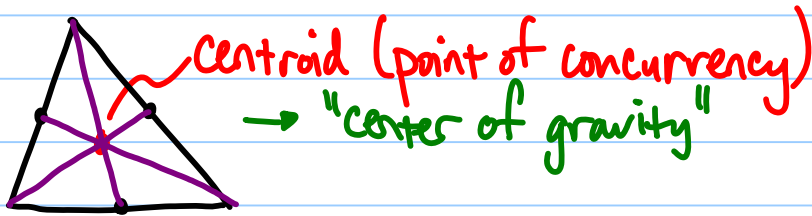
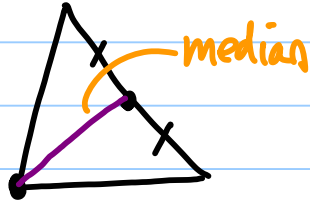


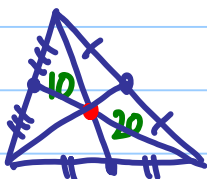
# 6.1 Medians

→ segment that joins a vertex of a  $\Delta$  and the midpoint of the side opposite that vertex.



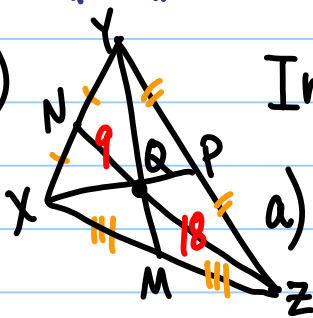
Theorem 6.1 - length of the segment (vertex  $\rightarrow$  centroid) is twice the length of the segment (centroid  $\rightarrow$  midpoint)

ex)



$10 + 20 = 30$  (length of median)

ex 2)



In  $\Delta XYZ$ ,  $\overline{XP}$ ,  $\overline{ZN}$ ,  $\overline{YM}$  are medians.

a) If  $QM = 4$ , find  $YQ$ .

shorter

double  $QM$ :

$2(4) = 8$

b) If  $QZ = 18$ , find  $ZN$ .

median

$18 + 9 = 27$

$\frac{1}{2}$