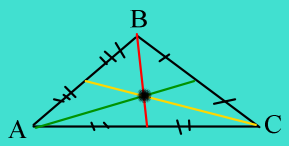
Ch 4.6 Median in a Triangle

Median - is the segment from a vertex to the midpoint of the opposite.



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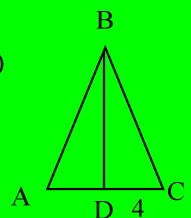
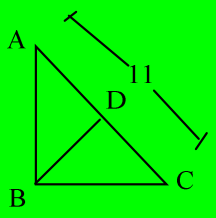
Ex1) $\overline{BD}$ is a median of $\triangle ABC$. Find the length of $\overline{AD}$.

a)



b)



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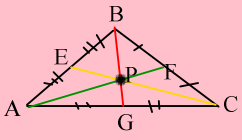
Centroid of a Triangle - is the point where all 3 medians of the triangle intersect.

Th 4.4: The distance from the vertex to the centroid is 2/3 the distance of the median.



AP = 2/3 AF
PC = 2/3 EC
BP = 2/3 BG

* then the distance from the centroid to the midpoint is 1/3 of the distance of the median.

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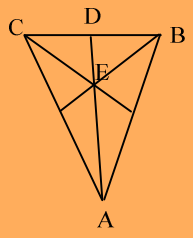
Ex2a) E is the centroid of ΔABC. Find EA and DE, if DA = 27.



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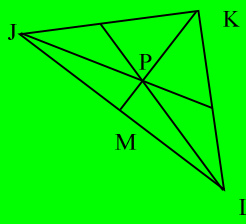
Ex2b)



Find $\overline{KP}$ and $\overline{PM}$, given $\overline{KM} = 99$

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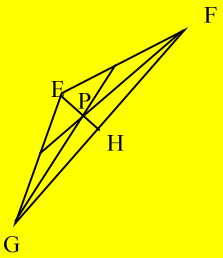
Ex2c) Given EP = 2, find EH.



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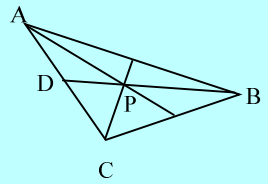
Ex2d) Find BD, given DP = 8.



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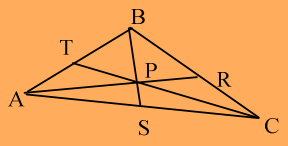
Try



Leave answers as fractions if needed.

1. If AB = 12, what is AT?

2. If AR = 21, what is AP?

3. If CP = 12, what is CT?

4. If BP = 9, what is PS?

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