MATHS

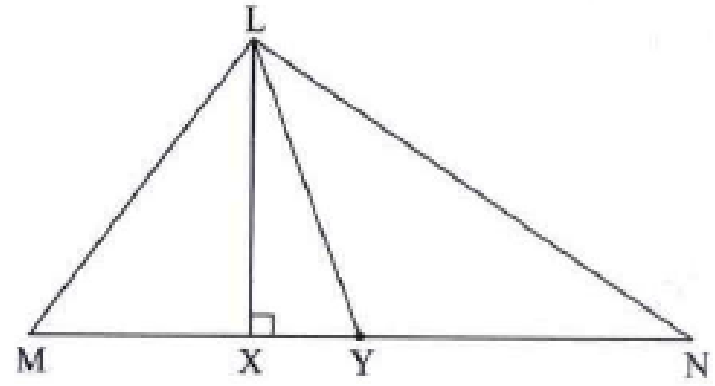
BOOKS - NAVNEET PUBLICATION

ALTITUDES AND MEDIANS OF A TRIANGLE

Question Bank

1. In Δ LMN,..... Is an altitude and ..... Is a median. (Write the names of appropriate

segments)



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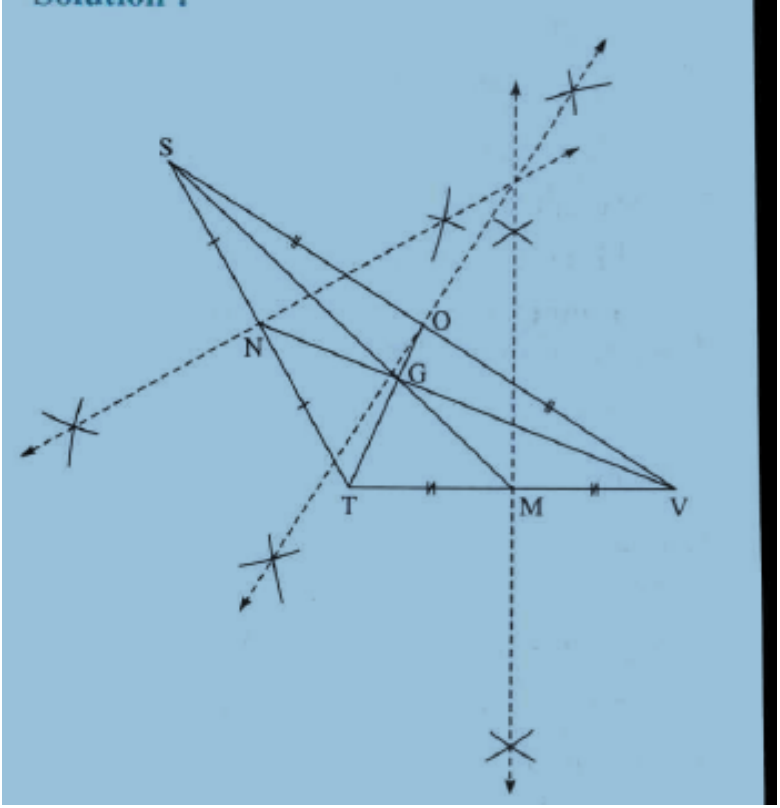
2. Draw an obtuse angled △ STV. Draw its medians and show the centroid.



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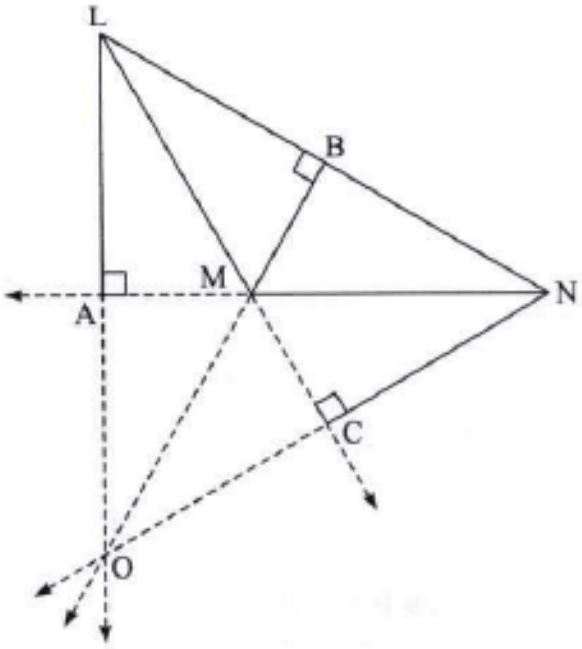
3. Draw an obtuse angled Δ LMN . Draw its altitudes and denote the orthocentre by O.



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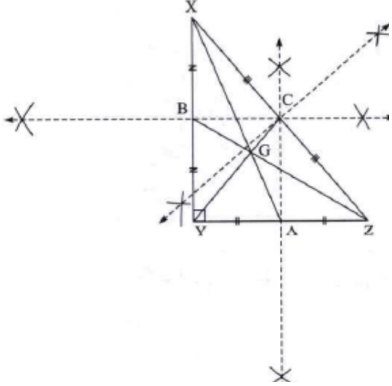
4. Draw a right angled XYZ. Draw its medians and show their point of concur-rence by G.



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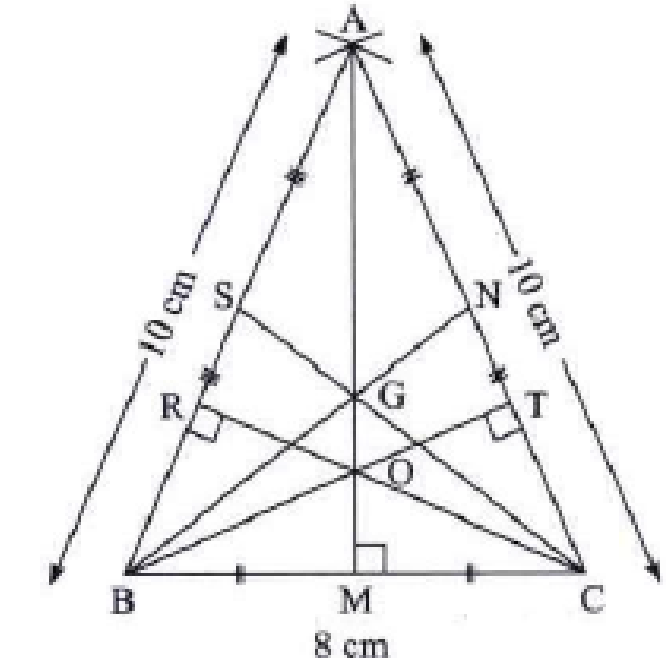
5. Draw an isosceles `/_\`. Draw all of its medians and altitudes. Write your observation

about their points of concurrence.



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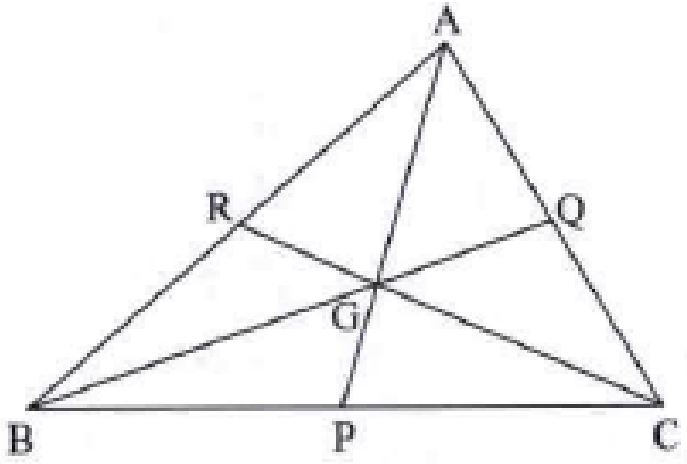
6. Fill in the blanks :

Point G is the centroid of Δ ABC.

If l (RG) = 2.5 then l (GC) = ...



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7. Fill in the blanks :

Point G is the centroid of Δ ABC.

If l (BG) = 6 then l (BQ) = ...

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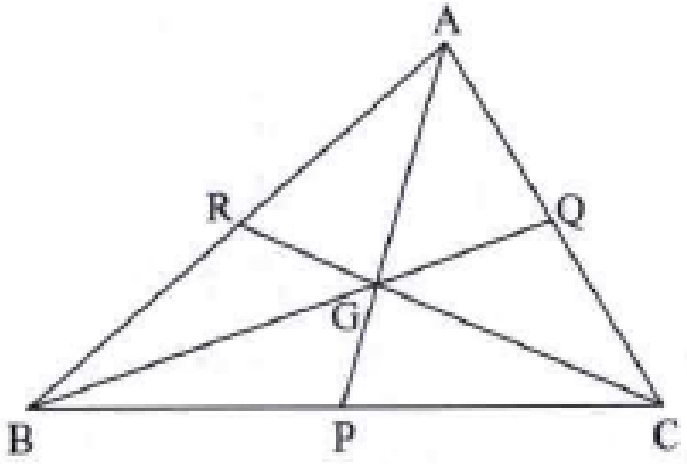
8. Fill in the blanks :

Point G is the centroid of Δ ABC.

If l (AP) = 6 then l (AG) = ... And l (GP) = ...



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9. Choose the correct alternative answer for each of the following question.

The point of concurrence of the altitudes of a triangle is called .....

A. an incentre

B. a circumcentre

C. a centroid

D. an orthocentre

Answer: D

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10. Choose the correct alternative answer for each of the following question.

The point of concurrence of the medians of a triangle is called.....

A. an incentre

B. a circumcentre

C. a centroid

D. an orthocentre

Answer: C

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11. Choose the correct alternative answer for each of the following question.

The centroid divides the median in the ratio .....

A. $2:1$

B. $1:3$

C. $3:1$

D. $1:4$

Answer: A

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12. Choose the correct alternative answer for each of the following question .

The orthocentre of an obtuse angled triangle lies .....

A. inside the triangle

B. outside the triangle

C. on the triangle

D. cannot be determined

Answer: B

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13. If the length of the median AP of Δ ABC is 9 cm and G is the centroid then find l (AG) and l (GP).

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14. Draw an acute angled triangle ABC. Draw all of its altitudes. Name the point of concurrence as O.

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15. Draw an obtuse angled Δ MAN. Draw its medians and name its centroid as G.

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16. Draw an acute angled Δ XYZ. Draw its altitudes . Note your observation.

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17. Draw an acute angled Δ LUV. Draw its medians. Note your observation.

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18. Draw a right angled Δ PQR. Draw its altitudes . Note your observation.

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19. Draw an equilateral triangle. Find its circumcentre (C), incentre (I), centroid (G) and orthocentre (O). Write your observation.

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20. Draw an isosceles triangle. Locate its centroid, orthocentre, circumcentre and in-centre. Write your observation.

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