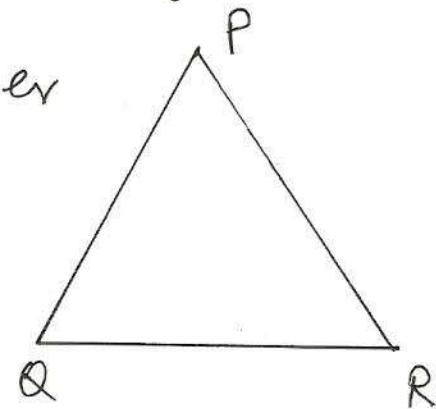


VII- Mathematics Assignment - No. 01 - △ And its Properties.

- Q1 How many points are needed to construct a triangle?
- Q2. Take three non collinear points P, Q, R on the page of your note book. Join PQ, QR and RP. Is the figure a triangle? If yes state the type and if No then explain why?
- Q3. Can you draw a triangle with three collinear points? If No Why?
- Q4. From the $\triangle PQR$, answer the following questions.



(a) Side opposite to $\angle R$

(b) Angle opposite to side QR

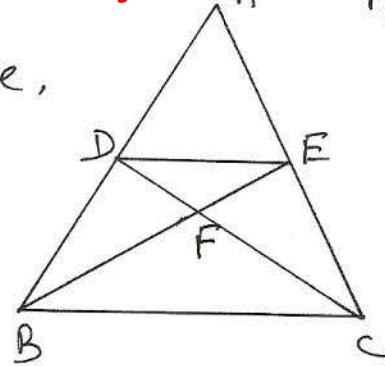
(c) vertex opposite to side RP

(d) Side opposite to the vertex P

Q5. What is the difference between a triangle and triangular region

Cont Pg-2

- Q6. From the adjoining figure, find the total different types of triangles and name them.



- Q7. Explain with the help of figure, the scalene, isosceles or equilateral \triangle s.

- Q8 How many medians a triangle have? Explain with the help of diagram.

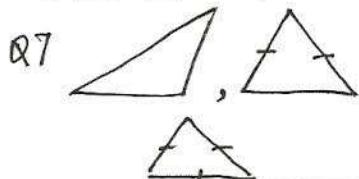
- Q9. The point of intersection of three medians is called by _____ and it divides the medians in the ratio _____

- Q10. Define altitude of a \triangle . How many altitudes a \triangle have? Name the point of intersection of altitudes.

ANSWERS:

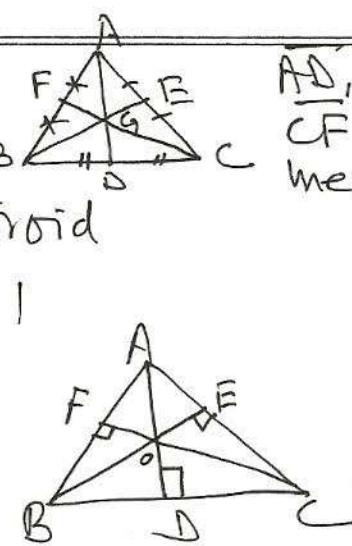
- (Q1) 3
 (Q2) Yes
 (Q3) No
 (Q4) (a) PQR
 (b) LP
 (c) Q
 (d) QR

- (Q6) 11
 $\triangle ABC, \triangle ABE$
 $\triangle ACD, \triangle ADE$
 $\triangle DEF, \triangle DBF$
 $\triangle EFC, \triangle DEB$
 $\triangle DEC, \triangle DBF$
 $\triangle EFC$



- (Q8) 3
 (Q9) 2 : 1
 Centroid

- (Q10) 3
 Orthocentre



$\overline{AD}, \overline{BE}$
 \overline{CF} are medians