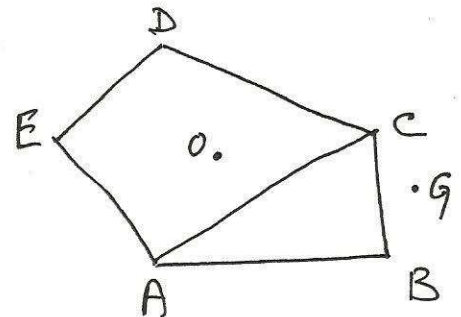


VI - Mathematics Assignment No-03 - Basic Geometrical Ideas.

Q1. Draw a rough diagram if possible of the following

- (i) A closed curve that is not a polygon
- (ii) An open curve made up entirely of line segments
- (iii) A polygon with two sides
- (iv) A polygon with minimum number of sides.

Q2. From the adjoining figure, Answer the following



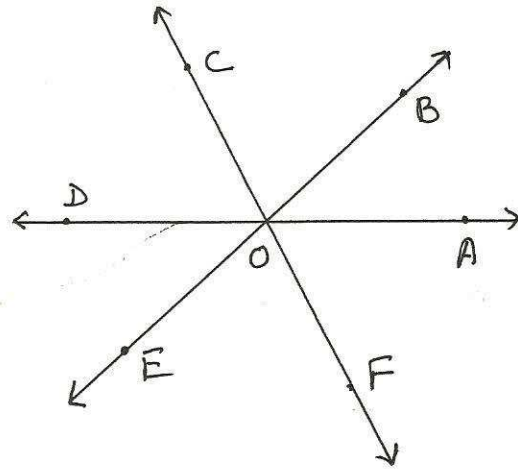
- (i) Is ABCDE a polygon?
- (ii) Is O in the exterior of the polygon
- (iii) Is G in the interior of the polygon
- (iv) Is AC a diagonal of the polygon
- (v) How many diagonals this polygon has?

(Q3) In this figure

(i) How many rays?

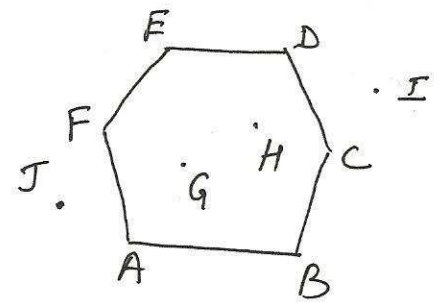
(ii) Name opposite rays

(iii) Name two lines.



(Q4). If a point R is between points P and Q, name pair of rays.

Q5. Look at the figure → and answer the following questions.



(i) Two adjacent sides

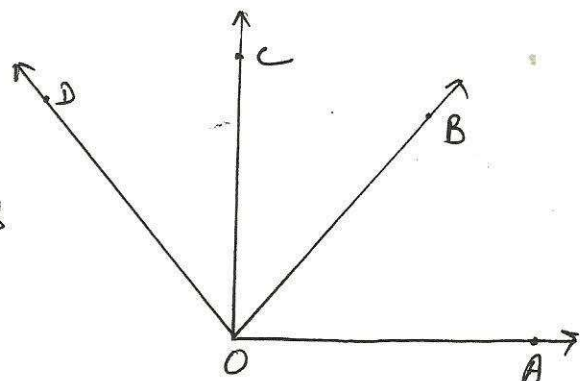
(ii) Three points on the polygon

(iii) one point in the interior

(iv) Two points in the exterior

(v) The polygon

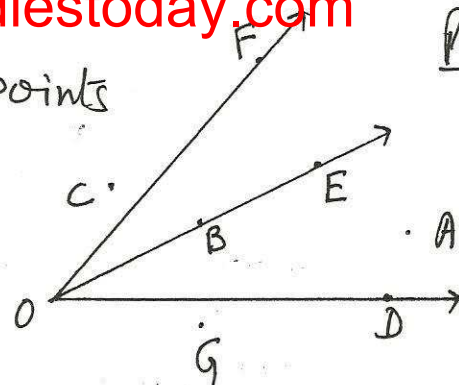
Q6. In this figure, how many angles are there name them.



Cont Pg-3

Q7. In this figure name the points

- (i) in the interior of $\angle EOF$
- (ii) in the exterior of $\angle EOF$
- (iii) on $\angle EOF$



Q8. Draw rough diagram of two \angle s having

- (i) one common point
- (ii) Two common point
- (iii) three " "
- (iv) Four " "

(Q9) Does the vertex of an angle lie in its

- (i) interior
- (ii) exterior

(Q10) How many angles does a polygon of (i) 5 sides (ii) 10 sides (iii) 'n' sides has?

ANSWERS

Q1 (i)	(Q3) (i) 6 (ii) OB and OE (iii) AD and CF	(Q6) Six $\angle AOB, \angle AOC, \angle AOD, \angle BOC, \angle BOD, \angle COD$	(ii)
(ii)	(Q4) $\overline{QP}, \overline{QR}$	Q7 (i) NIL (ii) C, A, D, G (iii) E, B, O, F	(iv)
(iii) Not possible	(Q5) (i) $\overline{AB}, \overline{BC}$ (ii) A, B, C (iii) G (iv) I, J (v) ABCDEF	Q8 (i)	(Q9) (i) No (ii) No
(iv)			(Q10) (i) 5 (ii) 10 (iii) n