

Mathematics

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(Chapter - 4) (Basic Geometrical Ideas)

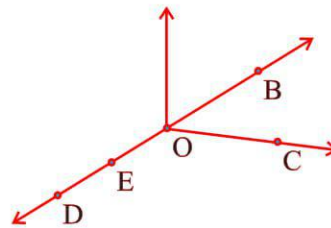
(Class - VI)

Exercise 4.1

Question 1:

Use the figure to name:

- (a) Five points
- (b) A line
- (c) Four rays
- (d) Five line segments



Answer 1:

- (a) Five points are: O, B, C, D, E
- (b) A line: \overline{DE} , \overline{DB} , \overline{OE} , \overline{OB}
- (c) Four rays: \overline{OD} , \overline{OE} , \overline{OC} , \overline{OB}
- (d) Four line segments: \overline{DE} , \overline{OE} , \overline{OC} , \overline{OB} , \overline{OD}

Question 2:

Name the line given in all possible (twelve) ways, choosing only two letters at a time from the four given.



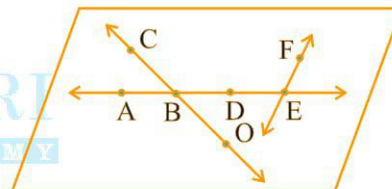
Answer 2:

\overline{AB} , \overline{AC} , \overline{AD} , \overline{BC} , \overline{BD} , \overline{CD} , \overline{BA} , \overline{CA} , \overline{DA} , \overline{CB} , \overline{DB} , \overline{DC}

Question 3:

Use the figure to name:

- (a) Line containing point E.
- (b) Line passing through A.
- (c) Line on which O lies.
- (d) Two pairs of intersecting lines.



Answer 3:

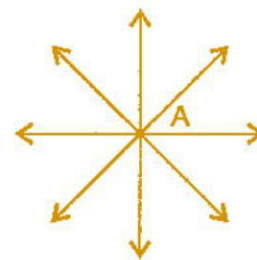
- (a) A line containing E = \overline{AE} or \overline{FE}
- (b) A line passing through A = \overline{AE} or \overline{DE}
- (c) A line on which O lies = \overline{CO} or \overline{OC}
- (d) Two pairs of intersecting lines are: \overline{AD} , \overline{CO} and \overline{AE} , \overline{FE}

Question 4:

How many lines can pass through: (a) one given point? (b) two given points

Answer 4:

- (a) Infinite number of lines can pass through one given point.
- (b) Only one line can pass through two given points.



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Question 5:

Draw a rough figure and label suitably in each of the following cases:

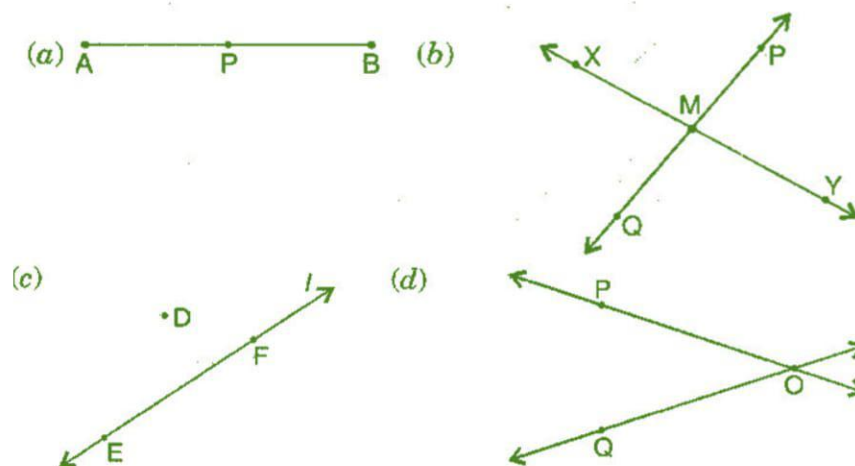
(a) Point P lies on \overline{AB} .

(b) \overline{XY} and \overline{PQ} intersect at M.

(c) Line l contains E and F but not D.

(d) \overline{OP} and \overline{OQ} meet at O.

Answer 5:



Question 6:

Consider the following figure of line \overline{MN} . Say whether following statements are true or false in the context of the given figure:

(a) Q, M, O, N, P are points on the line \overline{MN} .

(b) M, O, N are points on a line segment \overline{MN} .

(c) M and N are end points of line segment \overline{MN} .

(d) O and N are end points of line segment \overline{OP} .

(e) M is one of the end points of line segment \overline{QO} .

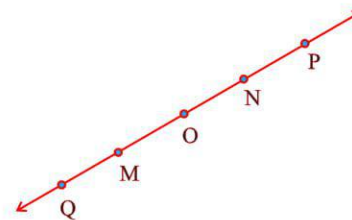
(f) M is point on ray \overrightarrow{OP} .

(g) Ray \overrightarrow{OP} is different from ray \overrightarrow{OM} .

(h) Ray \overrightarrow{OP} same as ray \overrightarrow{OM} .

(i) Ray \overrightarrow{OM} is not opposite to ray \overrightarrow{OP} .

(j) O is not an initial point of \overline{NP} and \overline{NM} .



Answer 6:

(a) True

(b) True

(c) True

(d) False

(e) False

(f) False

(g) True

(h) False

(i) False

(j) False

(k) True

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