

INTERNATIONAL INDIAN SCHOOL BURAIDAH

Worksheet for the Academic Year 2023-24

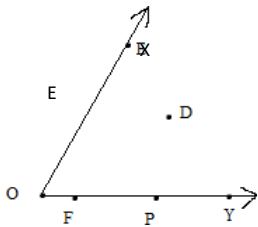
CLASS : 6 SUBJECT : MATHEMATICS

LESSON – 4 : Basic Geometrical Ideas

1. Fill in the blanks.

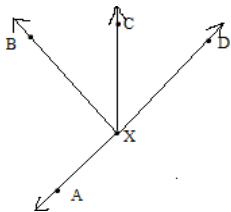
1. A line is made up of 2 points.
2. In a line segment XY, the points X & Y are called the end points of the segments.
3. One & the only one line can be drawn through 2 points.
4. Parallel lines do not intersect each other.
5. The curve which does not cross itself is called simple curve.
6. A closed figure made up of line segments is called a polygon.
7. A polygon with the least no. of sides is called a triangle.

2. Answer the following questions based on the given figure.

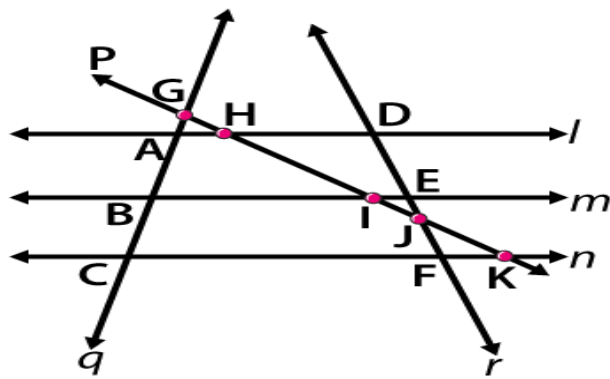


1. $\angle XOY$ is an angle.
2. O is the vertex of $\angle XOY$.
3. OX & OY are called the arms.
4. E, F, P & Y are the points on the $\angle XOY$.
5. The point D lie on the interior of $\angle XOY$.
6. The point E is on the exterior of $\angle XOY$.

3. From the figure, name any four rays:



4. From Fig. 10.21, write

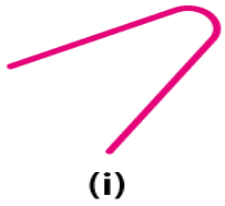


- (i) all pairs of parallel lines.
- (ii) all pairs of intersecting lines.
- (iii) lines whose point of intersection is I.
- (iv) lines whose point of intersection is D.
- (v) lines whose point of intersection is E.
- (vi) lines whose point of intersection is A.

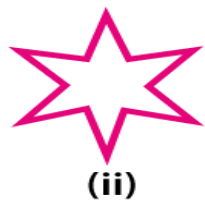
Solution:

- (i) All pairs of parallel lines are (l, m); (m, n); (l, n).
- (ii) All pairs of intersecting lines are (l, p); (m, p); (n, p); (l, r); (m, r); (n, r); (p, r); (l, q); (m, q); (n, q); (q, p); (q, r).
- (iii) Lines whose point of intersection is I are m, p.
- (iv) Lines whose point of intersection is D are l, r.
- (v) Lines whose point of intersection is E are m, r.
- (vi) Lines whose point of intersection is A are l, q.

5. Classify the following curves as open or closed:



(i)



(ii)



(iii)



(iv)



(v)



(vi)

6. Answer the following questions.

- i) Is ABCDEF a polygon?
- ii) How many sides does it have? Name them also?

