



Introduction to Euclids geometry Ex 7.1 Q5

Answer :

(i) A line segment is a part of line defined by two end points. So in the given figure 7.17, five line segments are:

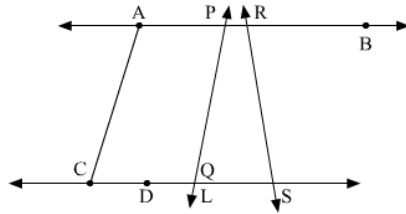


Fig. 7.17

- (1) AC
- (2) CD
- (3) AP
- (4) PQ
- (5) RS

(ii) A ray is the part of line with one end point and one end which can be extended. So in the given figure 7.17, five rays are:

- (1) Ray RB
- (2) Ray RS
- (3) Ray PQ
- (4) Ray DS
- (5) Ray AB

(iii) Collinear points are the points which are present on the same line. In the present figure 7.17, there are two sets of four collinear points.

- (1) A, P, R, B
- (2) C, D, Q, S

(iv) In the given figure 7.17, two pairs of non intersecting line segments are:

- (1) AB and CS
- (2) AC and PQ

Introduction to Euclids geometry Ex 7.1 Q6

Answer :

(i) Two distinct points in a plane determine a unique line.

(ii) Two distinct lines in a plane cannot have more than one point in common.

(iii) Given a line and a point, not on the line, there is one and only perpendicular line which passes through the given point and is perpendicular to the given line.

(iv) A line separates a plain into three parts namely the two half planes and the line itself.

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