

RS Aggarwal Solutions for Class 6 Maths Chapter 11
– Line Segment, Ray and Line

Exercise 11A

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1.

Solution

A line segment has two end points.

(i) Line segments are XY and YZ

(ii) Line segments are AD, AB, AC, AE, DB, BC and CE

(iii) Line segments are PQ, PR, PS, QR, QS and RS

2.

Solution

(i) Line segment is AB and rays are AC and BD

(ii) Line segments are GE, GP and EP and rays are EF, GH and PQ

(iii) Line segments are OL and OP and rays are LM and PQ

3.

Solution

(i) Four line segments are PR, PQ, RS and QS

(ii) Four rays are PA, QC, RB and SD

(iii) Two non intersecting line segments are PR and QS

4.

Solution

Three or more points in a plane are said to be collinear if they all lie on the same line and this line is called the line of collinearity for the given points.

(i) We can draw only one line passing through three collinear points

(ii) In given three collinear points A, B, C we can find three collinear points namely AB, BC and AC since all have two end points.

5.

Solutions

(i) Four pairs of intersecting lines are (AB, PS), (AB, RS), (CD, PS) and (CD, RS)

(ii) Four collinear points are A, Q, S and B

(iii) Three non collinear points are A, C and B

(iv) Three concurrent lines are AB, PS and RS

(v) Three lines whose point of intersection is p are CD, PQ and PS

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Exercise 11B

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Objective Questions

1.

Solution

A line has no end point since it can be extended from both sides.

Option (c) is the correct answer

2.

Solution

A ray has one end point and it is extended endlessly towards other direction.

Option (b) is the correct answer.

3.

Solution

A line segment has two end points and a definite length.

Option (a) is the correct answer.

4.

Solution

A line segment has definite length and can be drawn on a paper.

Option (b) is the correct answer.

5.

Solution.

A line segment can be drawn on a piece of paper.

Option (b) is the correct answer.

6.

Solution

We can draw unlimited number of lines passing through a given point

Option (d) is the correct answer.

7.

Solution

Only one line can be drawn passing through two given points

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Option (a) is the correct answer.

8.

Solution

Two intersecting planes intersect in a line

Option (c) is the correct answer.