

Point: A dimensionless dot which is drawn on a plane surface is known as point. A point is that which has no part.

Line: A collection of points that has only length and no breadth is known as a line. And it can be extended on both directions. A line is breadth-less length.

- (i) **Parallel lines-** Parallel lines are those lines which never intersect each other and are always at a constant distance perpendicular to each other. Parallel lines can be two or more lines.
- (ii) **Perpendicular lines-** Perpendicular lines are those lines which intersect each other in a plane at right angles then the lines are said to be perpendicular to each other.
- (iii) **Line Segment-** When a line cannot be extended any further because of its two end points then the line is known as a line segment. A line segment has 2 end points.
- (iv) **Radius of circle-** A radius of a circle is the line from any point on the circumference of the circle to the center of the circle.
- (v) **Square-** A quadrilateral in which all the four sides are said to be equal and each of its internal angle is right angles is called square.

3. Consider two 'postulates' given below:

- (i) **Given any two distinct points A and B, there exists a third point C which is in between A and B.**
- (ii) **There exist at least three points that are not on the same line.**

Do these postulates contain any undefined terms? Are these postulates consistent? Do they follow from Euclid's postulates? Explain.

Solution:

Yes, these postulates contain undefined terms. Undefined terms in the postulates are:

- There are many points that lie in a plane. But, in the postulates given here, the position of the point C is not given, as of whether it lies on the line segment joining AB or not.
- On top of that, there is no information about whether the points are in same plane or not.

Yes, these postulates are consistent when we deal with these two situation:

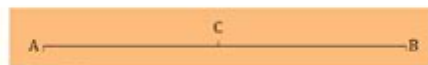
- Point C is lying on the line segment AB in between A and B.
- Point C does not lie on the line segment AB.

No, they don't follow from Euclid's postulates. They follow the axioms.

4. If a point C lies between two points A and B such that $AC = BC$, then prove that $AC = \frac{1}{2}AB$.

Explain by drawing the figure.

Solution:



Given that, $AC = BC$

Now, adding AC both sides.

$$\text{L.H.S} + AC = \text{R.H.S} + AC$$

$$AC + AC = BC + AC$$

$$2AC = BC + AC$$

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INTRODUCTION TO ENUMERATIVE GEOMETRY 5 q p FIGURE 1. The unique line through two distinct points, and the infinitely many lines through one point in the plane. answer '1' can be recovered in the non-transverse setting (the picture on the right) by means of the excess intersection formula.

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