

Lines and Angles (Including Construction of Angles)

Chapter 13: Lines and Angles (Including Construction of Angles) · Topic 1

Key Concept

A line segment has two endpoints, a ray has one endpoint extending infinitely, and a line extends infinitely in both directions.

Angles are classified by their measure - acute (less than 90°), right (exactly 90°), obtuse (between 90° and 180°), and straight (180°).

We construct angles accurately using a protractor to measure the desired degree, or a compass for specific standard angles like 60° .

Understanding lines and angles is fundamental for constructing shapes and solving geometric problems accurately.

Quick Revision Notes

- A line segment has two endpoints.
- A ray has one endpoint, extends infinitely.
- A line extends infinitely both ways.
- Acute angles are less than 90° .
- Right angles are exactly 90° .
- Obtuse angles are between 90° and 180° .
- We use a protractor to construct angles.
- A compass helps construct standard angles like 60° .

Practice Questions

- 1 Draw a line segment, ray and line.
- 2 Construct a 60° angle using a compass.
- 3 Measure an angle using a protractor.
- 4 Classify five angles you find around you.
- 5 Discuss the difference between a ray and a line.
- 6 Construct a 90° angle.