

Parallel Lines

Chapter 5: Parallel and Intersecting Lines · Topic 1

Key Concept

Parallel lines are marked in diagrams using matching arrow symbols on each line to indicate they are parallel to one another. Understanding parallel lines is foundational to geometry, since many shapes (like parallelograms, rectangles) are defined by having pairs of parallel sides, and parallel lines cut by a transversal create specific, predictable angle relationships that are heavily used in geometric proofs.

Quick Revision Notes

- Parallel lines lie in the same plane and never meet, regardless of extension.
- Real-life examples: railway tracks, ruler edges, notebook lines.
- Parallel lines are marked with matching arrow symbols in diagrams.
- Shapes like parallelograms and rectangles are defined by having parallel sides.

Practice Questions

- 1 Draw two parallel lines using a ruler and set square.
- 2 Name two real-life examples of parallel lines other than railway tracks.
- 3 Explain why parallel lines never intersect.