



NUR AFRICA ACADEMY

***MATHS Revision Note for
Grade - 5***

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CHAPTER FOUR

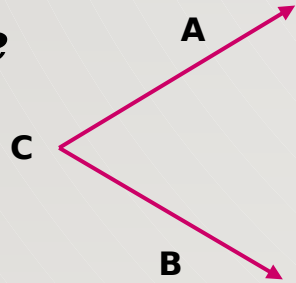
GEOMETRY AND GEOMETRICAL CONSTRUCTIONS



4.1 Angles

An angle is formed by two lines meeting at a point.

Example



- Lines AC and CB have **common point at C**, therefore, there is an **angle at C** and it is called **Angle ACB ($\angle ACB$)** or **Angle BCA ($\angle BCA$)**.
- The **common point C** is called the **vertex**.



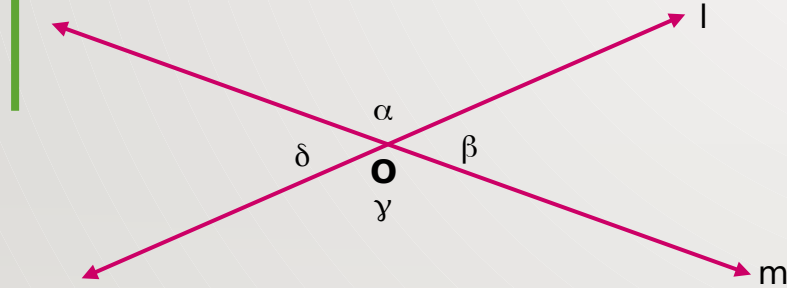
- We usually name angles with letters from the Greek alphabets.
- *Here are the first five letters and their names:*
- - α Alpha - ϵ Epsilon
- - β Beta - δ Delta
- - γ Gamma
- - δ Delta

4.1.2 Measuring angles

- *The angles inside a rectangle and a square are right angles.*
- The angle between a wall and the floor of most buildings is a right angle.
- *If we divide a right angle into 90 equal parts, each part is called **a degree**.*
- *An instrument used to measure angles in degrees is called **a protractor**.*
- *it can measure angles up to 180° .*

4.1.3 When two lines cross

- Below line l and m intersect at the point O , which is a common vertex for all four angles, α , β , γ and δ .

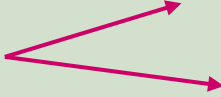
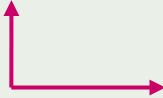


- δ and β are vertically opposite angles,*
- α and γ are also vertically opposite.*
- Vertically opposite angles are always equal in measure*
- Measuring the angles with a protractor gives that: $\delta = \beta$ **and** $\alpha = \gamma$.
- The sum of two angles that have common vertex and side is 180° .*
- $\alpha + \beta = 180^\circ$ $\delta + \beta = 180^\circ$
- $\alpha + \delta = 180^\circ$



4.1.4. Types of angles

- The following table shows the size of angles of each type of angle with examples.

Type of angle	Size of angle	Diagram
Acute angle	Between 0° and 90°	
Right angle	Exactly 90°	
Obtuse angle	Between 90° and 180°	
Straight angle	Exactly 180°	
Reflex angle	Between 180° and 360°	



4.1.6 Interior Angles

- In any geometrical figure, like a triangle or a rectangle,
- *the angles inside the vertices are called interior angles.*

THANK YOU !!!!!

