

NUR AFRICA ACADEMY



Math Grade -4

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CHAPTER FOUR

GEOMETRY

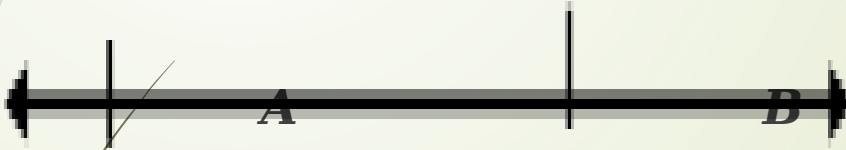
4.1. Points and lines



A point has no direction.



Points are named using letters like Point A and Point B.



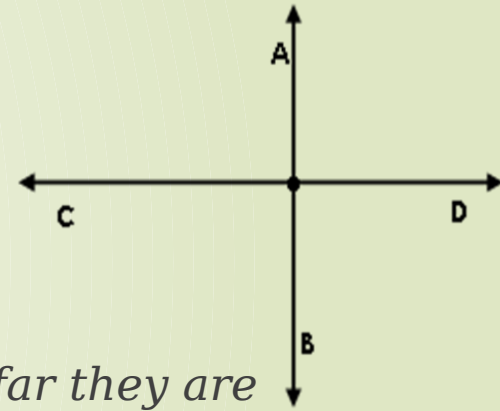
4.2. Relations between two lines

Two lines in a given plane may meet at a point or else they will not meet.

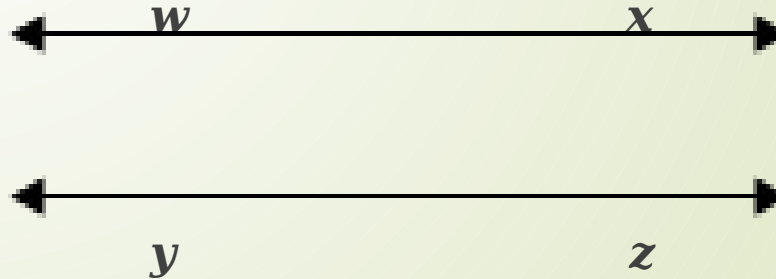
Point T is the intersection point.



- Two lines sometimes intersect at 90° or a right angle.
- The two lines are perpendicular to each other
 $AB \perp CD$ (AB is perpendicular to CD).



- Two lines in a plane may **not intersect**, no matter how far they are extended. These are parallel lines.

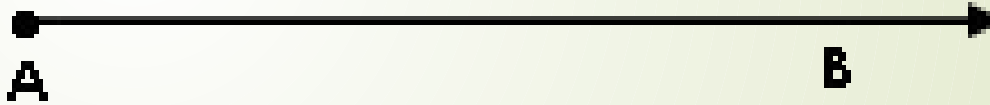


- ✓ **WX** is parallel to **YZ**, and we write this as **WX // YZ**.
- ✓ The symbol // **means is parallel to**.

4.3. Rays

□ A **ray** is part of a line having **an end point on one side**.

Example : AB is a ray with its end point at A .



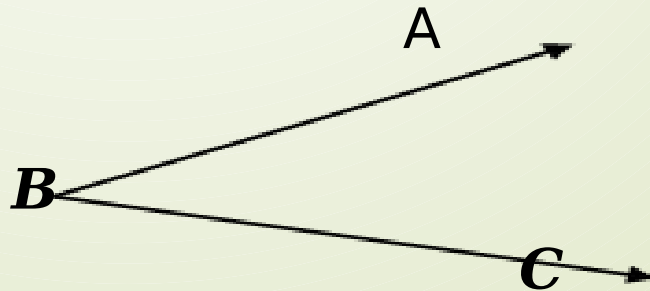
4.4. Line segments

A **line segment** is that part of a line that **lies between two end points**.

4.7. Angles And Triangle

4.7.1. Angles

- ✓ Angles are formed when two line segments meet at the same vertex.
- ✓ The **size of an angle is measured by an instrument called protractor.**
- ✓ Angles can be measured in degrees.

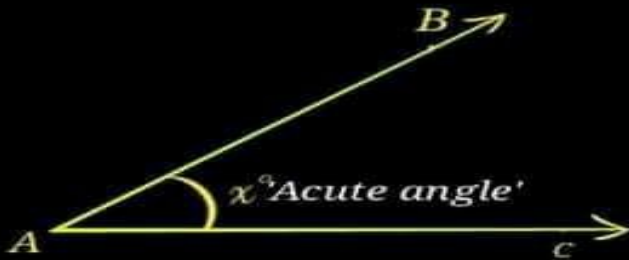


- ✓ Point **B** is called the vertex of the angle.
- ✓ **Ray BA and ray BC** are called the **sides of the angle.**

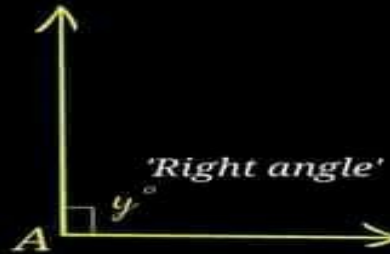
Types of angles

Types of angles

Basic terms of mathematics



(i) Acute angle
($0^\circ < x^\circ < 90^\circ$)



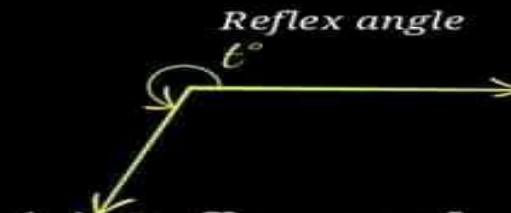
(ii) Right angle
($y^\circ = 90^\circ$)



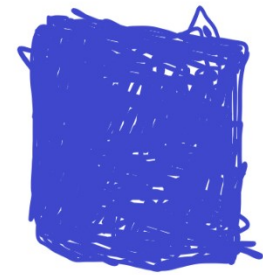
(iii) Obtuse angle
($90^\circ < z^\circ < 180^\circ$)



(iv) Straight angle
($s^\circ = 180^\circ$)



(v) Reflex angle
($180^\circ < t^\circ < 360^\circ$)

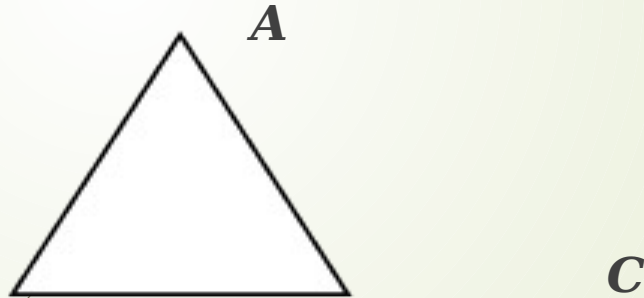


4.7.2 Triangles

✓ A triangle is a geometrical figure having three sides.

The triangle has three angles.

The symbol for triangle is $\triangle$. .



Segment AB, segment BC and segment AC are the sides of the above triangle.

$\angle ABC, \angle BCA, \& \angle CAB$ are the angles of $\triangle ABC$.

Classification of Triangles

Types of triangles

By Side



Equilateral
has 3 equal sides



Isosceles
has 2 equal sides



Scalene
has no equal sides

By angle



acute
3 angles $< 90^\circ$



Right angle
has 1 right angle



obtuse
has 1 angle $> 90^\circ$

***THANK
YOU !!!!!***

