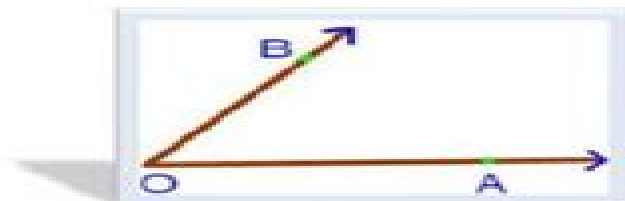


Chapter 1: The Trigonometric Functions

The word "Trigonometry" is a combination of three Greek words: *tri* which means three, *gonia* which means angle, and *metria* which means measurement. From these three Greek words, we can say that trigonometry is a branch of mathematics which deals with the geometric figure with three angles, the triangle. Trigonometry is used to solve problems of astronomy, geometry, navigation, physics and other branches of mathematics.

1.1. Angles

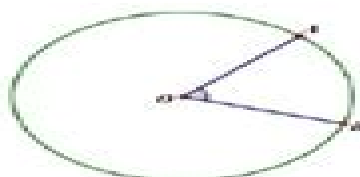
An **angle** is a plane figure formed by two rays which have a common endpoint. The two rays are called **sides** of the angle and the common endpoint is called the **vertex**. In the figure below, the sides are labeled A and B while the vertex is labeled O.



1.2. Measuring Angles

One way of measuring an Angle is by considering the amount of rotation (about the vertex) needed to make one side coincide with the other, say rotate OA about O to coincide with OB or rotate OB about O to coincide with OA.

Another way of measuring an angle is by considering the length of the arc of a circle with centre at O and intercepted by the rays OA and OB.



A third method of measuring angles is by considering the number of times that a point goes around the circumference of a circle.

Placing our angle on the rectangular coordinate system will help us understand angle measurement.

1.2.1. Angles in Standard Position

Recall that in algebra, we used the rectangular coordinate system to locate points in a plane. This system consists of two perpendicular lines, one horizontal called the **x-axis** and the vertical called the **y-axis**. Their point of intersection is called the **origin**.



The two lines are also known as the **Coordinate Axes**. They divide the plane into four parts called **quadrants** which are numbered counterclockwise I, II, III, and IV starting from the upper right quadrant.

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