

PLANE TRIGONOMETRY

Trigonometry

It is the study of triangles by applying the relations between the sides and the angles.

The term trigonometry comes from the word "trigonon" which means "triangle" and "metria" meaning "measurements".

Two Branches of Trigonometry

1. Plane Trigonometry – It deals with triangles in the two dimensions of the plane.

2. Spherical Trigonometry – It concerns with triangles extracted from the surface of a sphere.

Angle

It is defined as the union of two non-collinear rays that have a common starting point. The two rays are referred to as the arms of the angle and the common starting point is called its vertex.



Types of Angles

1. Null or Zero Angle – 0°
2. Acute Angle – $0^\circ < \theta < 90^\circ$
3. Right Angle – 90°
4. Obtuse Angle – $90^\circ < \theta < 180^\circ$
5. Straight Angle – 180°
6. Reflex Angle – $180^\circ < \theta < 360^\circ$
7. Full Angle or Perigon – 360°

Angle Pairs Relationships

1. Complementary Angles – two angles whose sum is 90° .
2. Supplementary Angles – two angles whose sum is 180° .
3. Explementary or Conjugate Angles – two angles whose sum is 360° .
4. Vertical Angles – angles formed by two intersecting lines. Vertical angles are equal.
5. Adjacent Angles – two angles with a common leg.

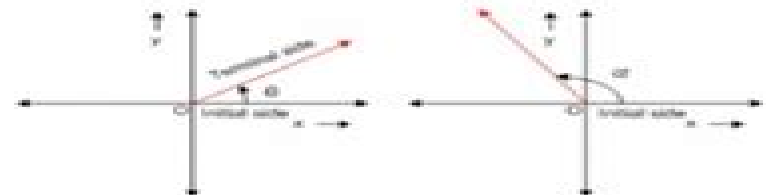
Angle Unit Conversion

360° (Sexagesimal System) is equivalent to:

1. 2π radians (Circular System)
2. 1 revolution
3. 6400 mils (Mil System)
4. 400 grads (Centesimal System)
5. 400 gon

Angle in Standard Position

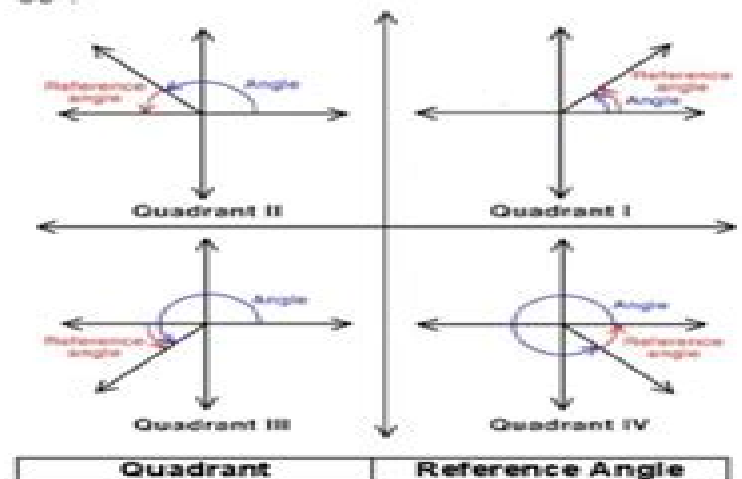
An angle whose vertex lies at the origin of a rectangular coordinate system and whose initial side is directed along the positive direction of x-axis of that coordinate system.



Reference Angle

When an angle is drawn on the coordinate plane with a vertex at the origin, the reference angle is the angle between the terminal side of the angle and the x-axis.

The reference angle is always between 0° and 90° .



Plane Trigonometry 4ed

Robert E. Moyer, Frank Ayres



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