

0.1 Definition 1

An angle is a geometrical object generated by rotating a ray (half-line) about its endpoint.

0.2 Definition 2

An angle is in standard position if it has its vertex at the origin of a coordinate system and its initial side is along the positive x -axis.

0.3 Definition 3

One radian is the measure of an angle in standard position that has its vertex at the center of a circle and that cuts an arc on the circle equal in length to the radius of the circle.

0.4 Definition 4

Consider an angle θ in standard position that has its vertex at the center of a circle and that cuts an arc on the circle equal in length to s . The radian measure of this angle θ is given by

$$\theta = \frac{s}{r} \text{radians,}$$

0.5 Definition 5

A function $y = f(x)$ defined on $\mathcal{D}$ is periodic if there is a positive real number $p \neq 0$ such that whenever x and $x + p$ are in $\mathcal{D}$, then

$$f(x + p) = f(x)$$

The smallest number with this property is called the period of f .