

ANGLES OF ROTATION

NOTES - TRIGONOMETRY

Angles of Rotation

Angle in Standard Position

An angle is formed when an angle is rotated about the origin in the standard position.

- Initial Side**: The ray that starts at the origin and extends along the positive x-axis.
- Terminal Side**: The ray that ends at the point P on the circle.
- Vertex**: The origin (0,0).
- Standard Position**: An angle whose vertex is at the origin and whose initial side lies along the positive x-axis.
- Positive Angles**: An angle that rotates counter-clockwise.
- Negative Angles**: An angle that rotates clockwise.

EXAMPLE 1: Draw each angle in standard position.

45° 225°

NOTES - TRIGONOMETRY

Coterminal & Reference Angles

Coterminal Angles

Any angles that have the same terminal side. They can find coterminal angles by adding or subtracting 360°.

Ex: $360^\circ = \text{Coterminal}$

EXAMPLE 2: Find a positive and negative angle coterminal with 120°.

$120^\circ + 360^\circ = 480^\circ$
 $120^\circ - 360^\circ = -240^\circ$

EXAMPLE 3: Find the reference angle for 120°.

NOTES - TRIGONOMETRY

Trigonometric Functions of θ

Given a point P on the terminal side of θ in standard position, the distance from the origin to the point P is given by $r = \sqrt{x^2 + y^2}$.

DEFINITION: The six trigonometric functions of θ are defined as follows:

Function	Definition
SINE	$\sin \theta = \frac{y}{r}$
COSINE	$\cos \theta = \frac{x}{r}$
TANGENT	$\tan \theta = \frac{y}{x}$
SECANT	$\sec \theta = \frac{r}{x}$
COTANGENT	$\cot \theta = \frac{x}{y}$
CSCANT	$\csc \theta = \frac{r}{y}$

Signs in each Quadrant

Use the acronym **ASTC** to determine the sign of the trigonometric functions of θ in each quadrant.

Quadrant	Signs
Quadrant I (0° to 90°)	All (+, +, +)
Quadrant II (90° to 180°)	Sine (+, -, -)
Quadrant III (180° to 270°)	Tangent (+, -, -)
Quadrant IV (270° to 360°)	Cosine (+, -, -)

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