

Principal Angle

= The angle left over after removing all its full circle rotations.

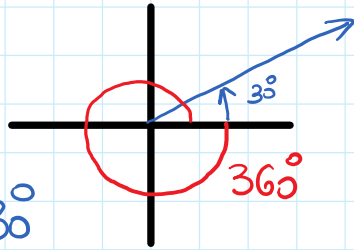
The principal angle & its parent θ are always coterminal

Example:

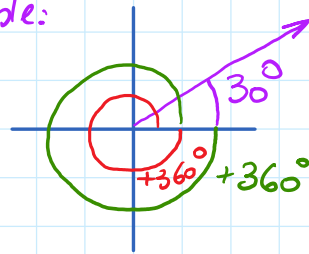
$$\theta = 390^\circ$$

$$= 360^\circ + 30^\circ$$

$$30^\circ = \text{principal } \theta \text{ of } 390^\circ$$



Example:



$$\alpha = 750^\circ$$

$$= 360^\circ + 360^\circ + 30^\circ$$

$$30^\circ = \text{principal } \theta \text{ of } 750^\circ$$