

Let  $\Theta$  be an angle in standard position,

let (x,y) be any point (other than origin)

on the terminal side of the angle  $\Theta$ ,

and let  $r = \sqrt{x^2 + y^2}$ . We define

the six trigonometric functions with

argument  $\Theta$  as follows: Sin  $0 = \frac{1}{2}$   $\cos 0 = \frac{1}{2}$   $\tan 0 = \frac{1}{2}$ ,  $x \neq 0$   $\csc 0 = \frac{1}{2}$ ,  $y \neq 0$  Sec  $0 = \frac{1}{2}$ ,  $x \neq 0$   $\cot 0 = \frac{1}{2}$ ,  $y \neq 0$ Def. (Reference angles) Given an angle  $\theta$  in standard position,

the reference angle  $\theta'$  associated with

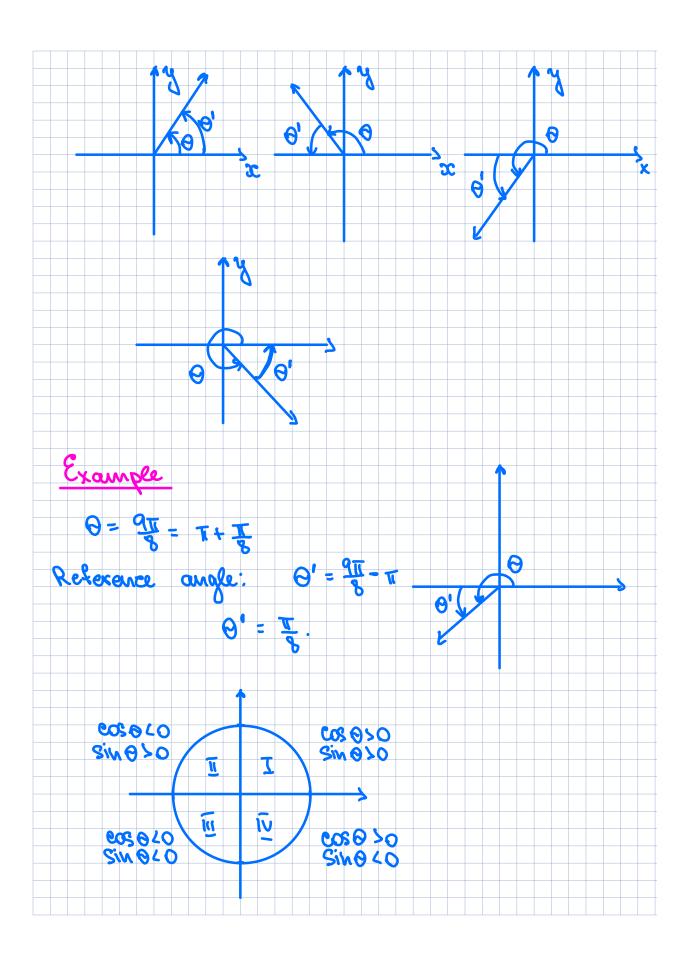
it is the angle formed by the

se-axis and the terminal side of  $\theta$ .

Reference angles are always greater

than or equal  $\theta$  and ass than or

equal to  $\theta$  radians; that is,  $\theta \ge \theta' \ge \theta'$ .



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