

Angle in Standard Position

shorthand: \angle

θ = the principal \angle
positive \angle s r always
counterclockwise

the initial arm = begins the \angle
 \angle overlaps w/ th positive dir of Ox.

the terminal arm = the end of the \angle { w'd say ini. arm = Ox }

\oplus positive \angle

\ominus negative \angle

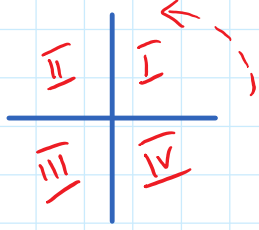
Reference \angle r always ACUTE!

\hookrightarrow = is an \angle between Ox & the terminal arm,
is always positive & acute ($< 90^\circ$)

Examples

Notice: Ox doesn't hv 2 b th positive side for ref. \angle s.

Quadrants



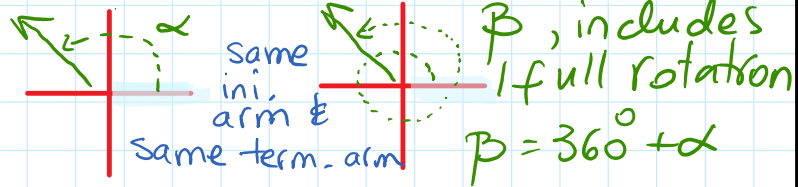
dir. of pos. \neq $s = w$ /the dir
of enumerating the
quadrants

Coterminal \neq s

"co" \equiv shared

} sharing a terminal arm

Ex: $\alpha \neq \beta$ r coterminal:

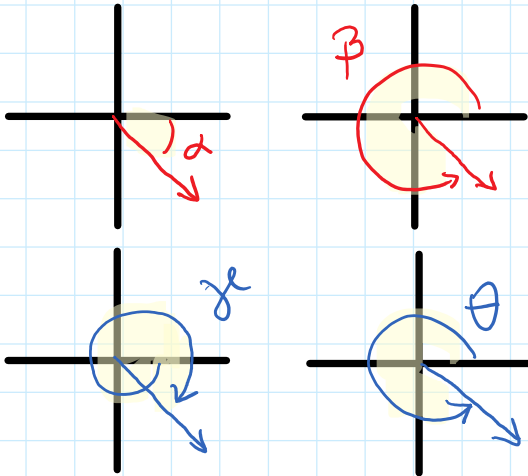


Negative \neq s

r always clockwise

α is negative
 β is pos.

$$|\alpha| + \beta = 360^\circ$$



γ is neg.
 θ is pos.

$$|\gamma| + \theta = 360^\circ \times 2 = 720^\circ$$