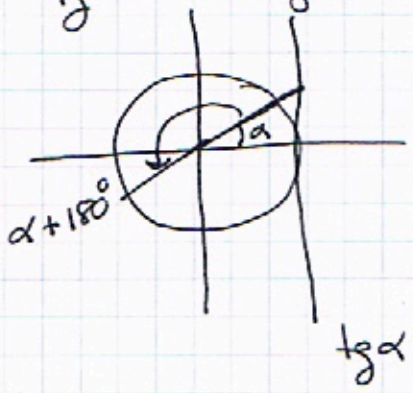
c) $0 \leq \alpha \leq 360$

$\operatorname{tg}\alpha$ coneguda



α No queda determinat ja que α i $\alpha+180^\circ$ tenen la mateixa tangent.

d) $0 \leq \alpha \leq 360^\circ$

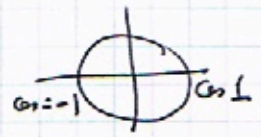
$\sin\alpha = \operatorname{cosec}\alpha$

$\sin\alpha = \frac{1}{\sin\alpha} \iff \sin^2\alpha = 1 \iff \sin\alpha = \pm 1$

Per tant $\alpha = 90^\circ$ ó $\alpha = 270^\circ$

$\cos\alpha = \sec\alpha$

$\cos\alpha = \frac{1}{\cos\alpha} \iff \cos^2\alpha = 1 \iff \cos\alpha = \pm 1$

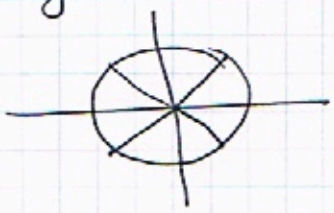


Per tant $\alpha = 0$ ó $\alpha = 180^\circ$

$\operatorname{tg}\alpha = \operatorname{cotg}\alpha$

$\operatorname{tg}\alpha = \frac{1}{\operatorname{tg}\alpha} \iff \operatorname{tg}^2\alpha = 1 \iff \operatorname{tg}\alpha = \pm 1 \iff$

$\iff \begin{cases} \sin\alpha = \cos\alpha \\ \sin\alpha = -\cos\alpha \end{cases}$



Per tant són els angles:

$\alpha = 45^\circ$, $\alpha = 135^\circ$, $\alpha = 225^\circ$ i $\alpha = 315^\circ$