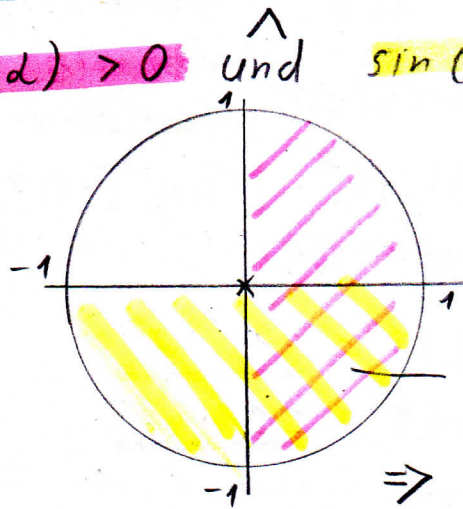


Mr. 9) a) $\cos(\alpha) > 0 \Rightarrow -90^\circ < \alpha < 90^\circ$ da $0^\circ \leq \alpha \leq 360^\circ$
 $\Rightarrow \underline{\underline{0^\circ \leq \alpha < 90^\circ}}$ oder $\underline{\underline{270^\circ \leq \alpha < 360^\circ}}$

b) $\sin(\alpha) < 0 \Rightarrow \underline{\underline{180^\circ < \alpha < 360^\circ}}$

c) $\cos(\alpha) > 0$ und $\sin(\alpha) < 0$



$\wedge \hat{=}$ und

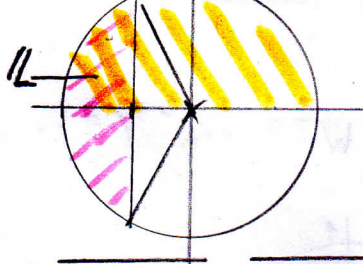
$\cos(\alpha) > 0$ und $\sin(\alpha) < 0$

$\Rightarrow \underline{\underline{270^\circ < \alpha < 360^\circ}}$

d) $\sin(\alpha) > -1 \Rightarrow$ Alle Winkel α zwischen $0^\circ \leq \alpha \leq 360^\circ$
 ohne $+270^\circ$

$\underline{\underline{\alpha \in [0^\circ; 360^\circ] \setminus \{270^\circ\} = [0^\circ; 270^\circ) \cup (270^\circ; 360^\circ]}}$

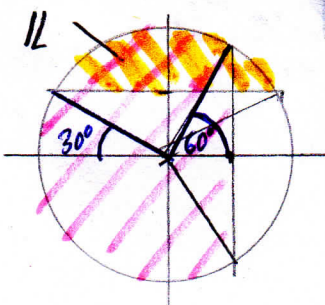
e) $\cos(\alpha) < -0,5$ und $\sin(\alpha) > 0$



$\Rightarrow \underline{\underline{120^\circ < \alpha < 180^\circ}}$

$\underline{\underline{\alpha \in (120^\circ; 180^\circ)}}$

$\cos(\alpha) < 0,5$ und $\sin(\alpha) > 0,5$



$\Rightarrow 60^\circ < \alpha < 150^\circ$

$\alpha \in (60^\circ; 150^\circ)$