

Nr. 10) $\overset{B}{\cos(180^\circ)} < \overset{E}{\cos(160^\circ)} < \overset{R}{\cos(210^\circ)} < \overset{N}{\cos(130^\circ)}$
 $< \overset{D}{\cos(270^\circ)} < \overset{U}{\cos(60^\circ)} < \overset{L}{\cos(340^\circ)} < \overset{L}{\cos(5^\circ)} < \overset{I}{\cos(0^\circ)}$

BERNOULLI

Nr. 11) $\sin(d) = -0,7$ | Umkehrfunktion

a) $\arcsin(\sin(d)) = \arcsin(-0,7)$ | von sin ist der arcsin
 Arcussinus $\hat{=}$ (WTR \sin^{-1})

(WTR) $d \approx -44,43^\circ$; $\sin^{-1}(-0,7) \approx -44,43^\circ$

da $0 \leq d \leq 360^\circ$ sein soll

$\Rightarrow d_1 = 360^\circ - 44,43^\circ \approx \underline{\underline{315,57^\circ}}$

$d_2 = 180^\circ + 44,43^\circ \approx \underline{\underline{224,43^\circ}}$

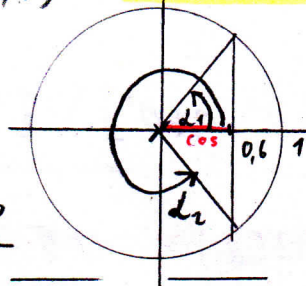
b) $\cos(d) = 0,6$

$\arccos(\cos(d)) = \arccos(0,6)$ WTR $\cos^{-1}(0,6) \approx 53,13^\circ$

$d = 53,13^\circ$

$\Rightarrow \underline{\underline{d_1 = 53,13^\circ}}$

$\underline{\underline{d_2 = 360^\circ - 53,13^\circ \approx 306,87^\circ}}$



c) $\sin(d) = \frac{1}{4}$

$\arcsin(\sin(d)) = \arcsin(\frac{1}{4})$ WTR $\sin^{-1}(\frac{1}{4}) \approx 14,47^\circ$

$\underline{\underline{d_1 = 14,47^\circ}}$

$\underline{\underline{d_2 = 180^\circ - 14,47^\circ \approx 165,52^\circ}}$

