

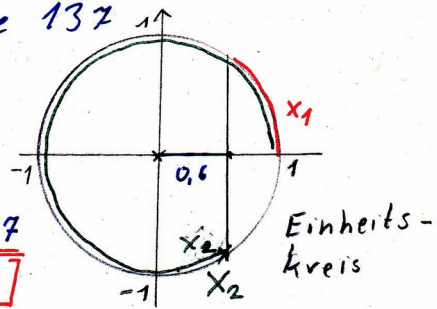
Nr. 4) a) $\cos(x) = 0,6$; $I = [0; 2\pi)$

$\arccos(\cos(x)) = \arccos(0,6)$

$x_1 = \arccos(0,6) \approx 0,927$

Eingabe in WTR $[\cos^{-1}(0,6) \approx 0,927]$

$x_2 = 2\pi - 0,927 \approx 5,356$



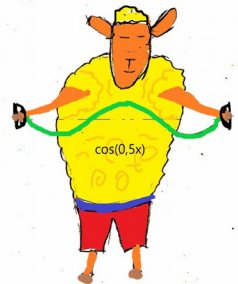
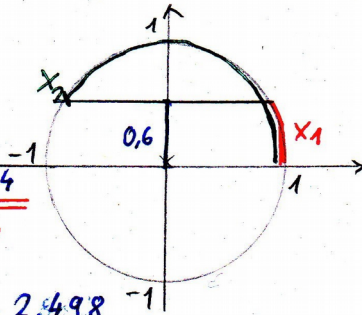
b) $\sin(x) = 0,6$; $I = [0; 2\pi)$

$\arcsin(\sin(x)) = \arcsin(0,6)$

$x_1 = \arcsin(0,6) \approx 0,644$

Eingabe in WTR $[\sin^{-1}(0,6) \approx 0,644]$

$x_2 = \pi - x_1 = \pi - 0,644 \approx 2,498$



c) $\sin(x) = -0,8$; $I = [0; 2\pi)$

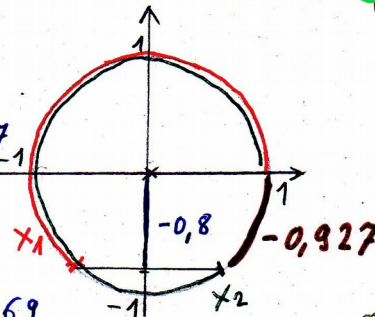
$\arcsin(\sin(x)) = \arcsin(-0,8)$

$x_1^* = \arcsin(-0,8) \approx -0,927$

Da x_1 im Intervall $I = [0; 2\pi)$ sein soll.

$x_1 = \pi + |x_1^*| = \pi + 0,927 \approx 4,069$

$x_2 = 2\pi - 0,927 = 5,356$



$f(x) = 5 \cdot \sin(0,5x) + 5$

