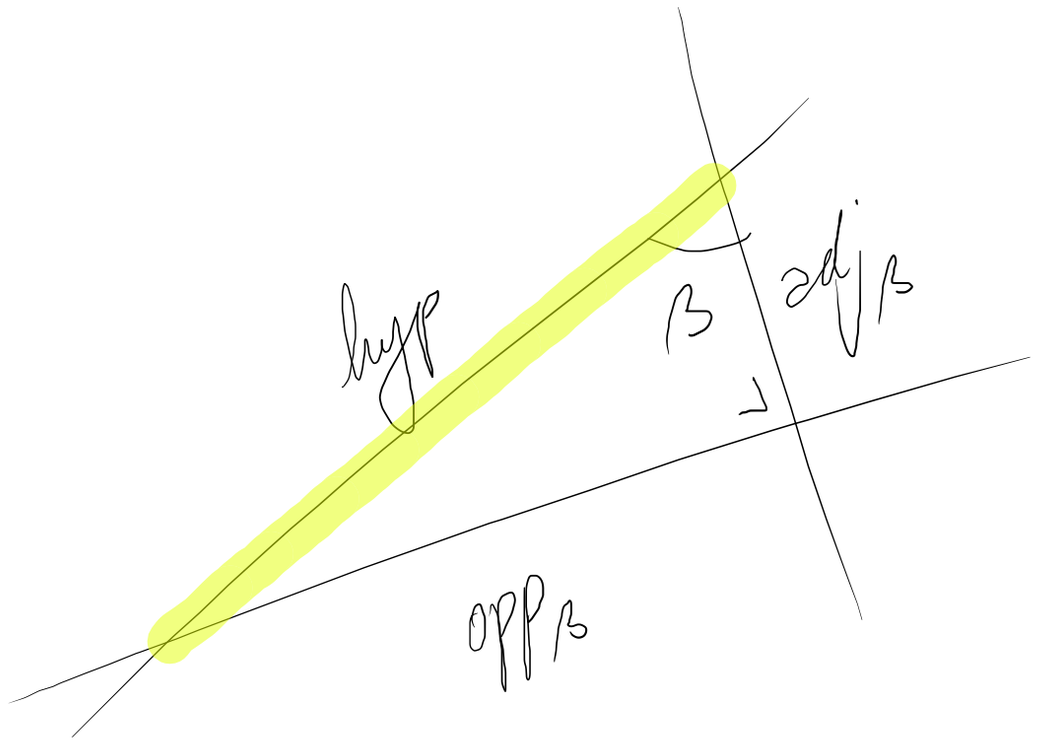


$$\cos\beta = \frac{\text{adj}\,\beta}{\text{hyp}}$$

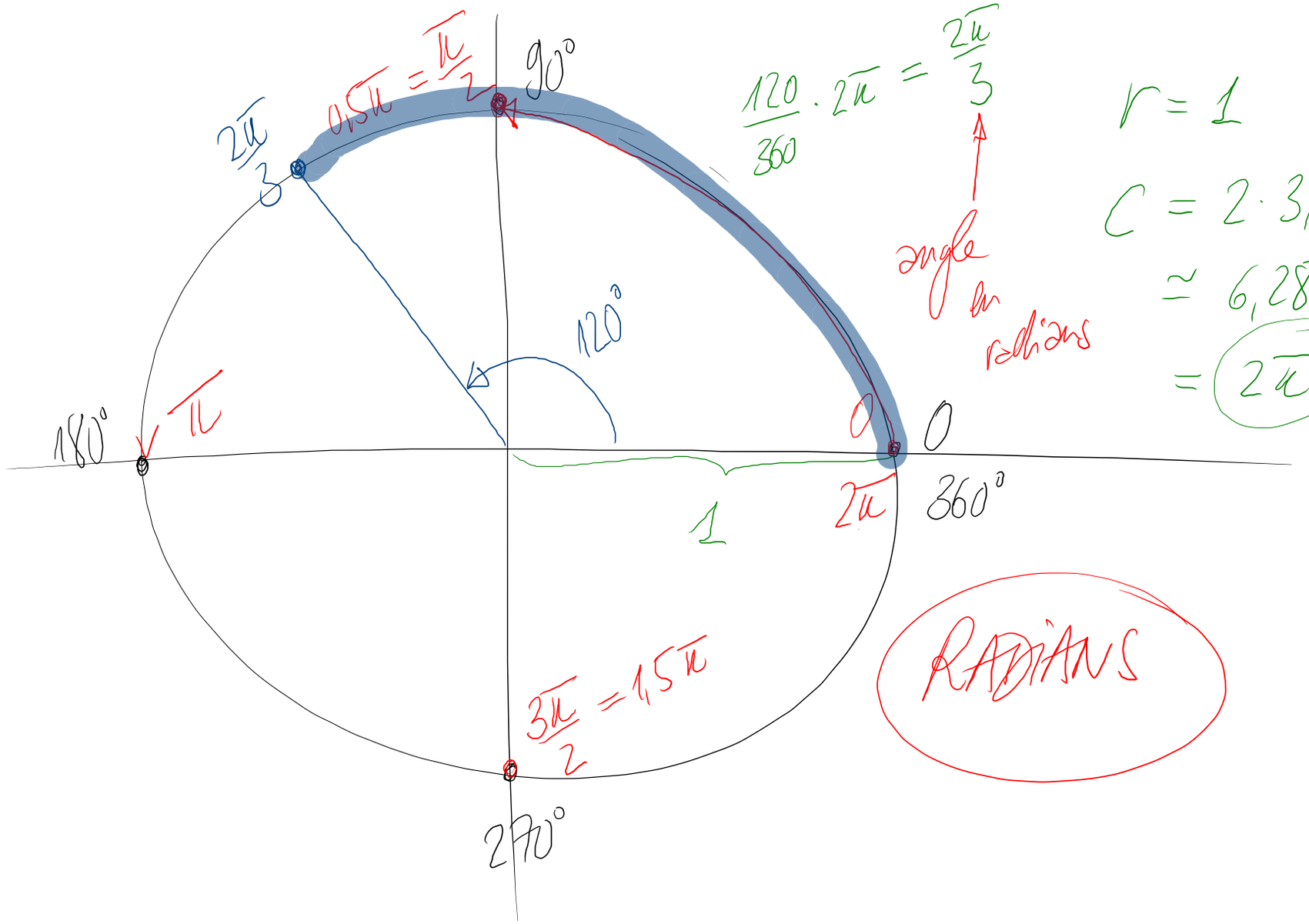
$$\sin\beta = \frac{\text{opp}\,\beta}{\text{hyp}}$$

$$\tan\beta = \frac{\text{opp}\,\beta}{\text{adj}\,\beta}$$

} rapports

$0 \leq \cos\beta, \sin\beta \leq 1$

ANGLE



$\frac{120}{360} \cdot 2\pi = \frac{2\pi}{3}$

angle in radians

$r = 1$

$C = 2 \cdot 3{,}14159265358979\ldots$

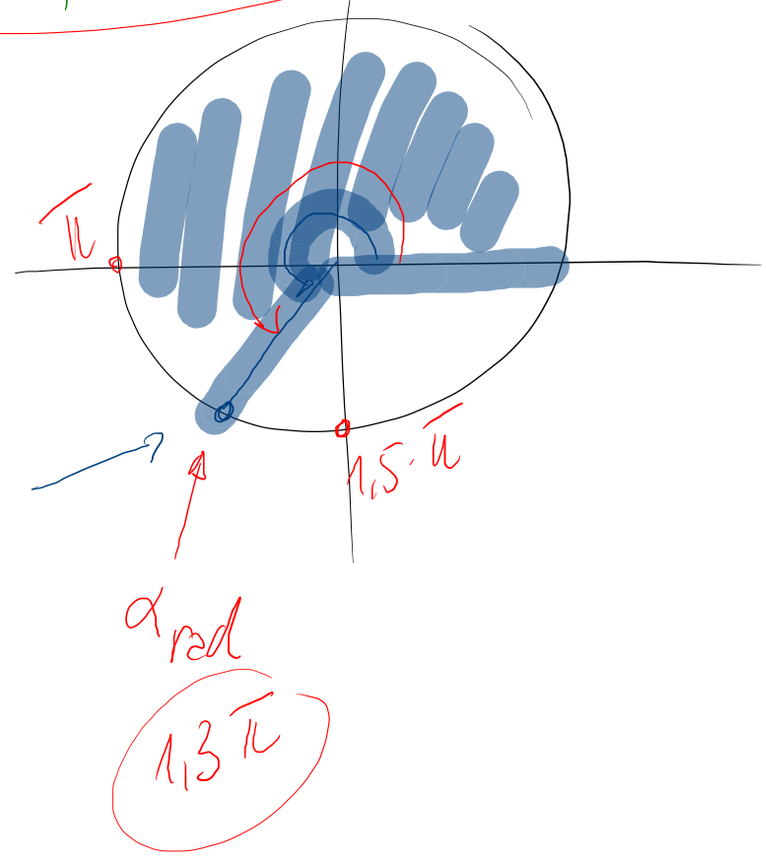
$\simeq 6{,}28$

$= 2\pi$

RADIANS

4.1.1 / 4.1.2

$$\frac{\alpha_{rad}}{2\pi} = \frac{\alpha_{deg}}{360°}$$



$$\frac{\alpha_{rad}}{\pi} = \frac{\alpha_{deg}}{180°}$$

$$\alpha_{rad} = \frac{\alpha_{deg}}{180°} \cdot \pi = \frac{\alpha_{deg}}{360°} \cdot 2\pi$$

$$\alpha_{deg} = \frac{\alpha_{rad}}{\pi} \cdot 180° = \frac{\alpha_{rad}}{2\pi} \cdot 360°$$

$$\frac{\frac{\pi}{6}}{\frac{2\pi}{1}} = \frac{\alpha}{360^\circ}$$

$$\frac{\frac{\pi}{6}}{\frac{2\pi}{1}} = \frac{\pi}{6} \cdot \frac{1}{2\pi}$$

$$\frac{\pi}{6 \cdot 2\pi} = \frac{1}{12} = \frac{\alpha}{360^\circ}$$

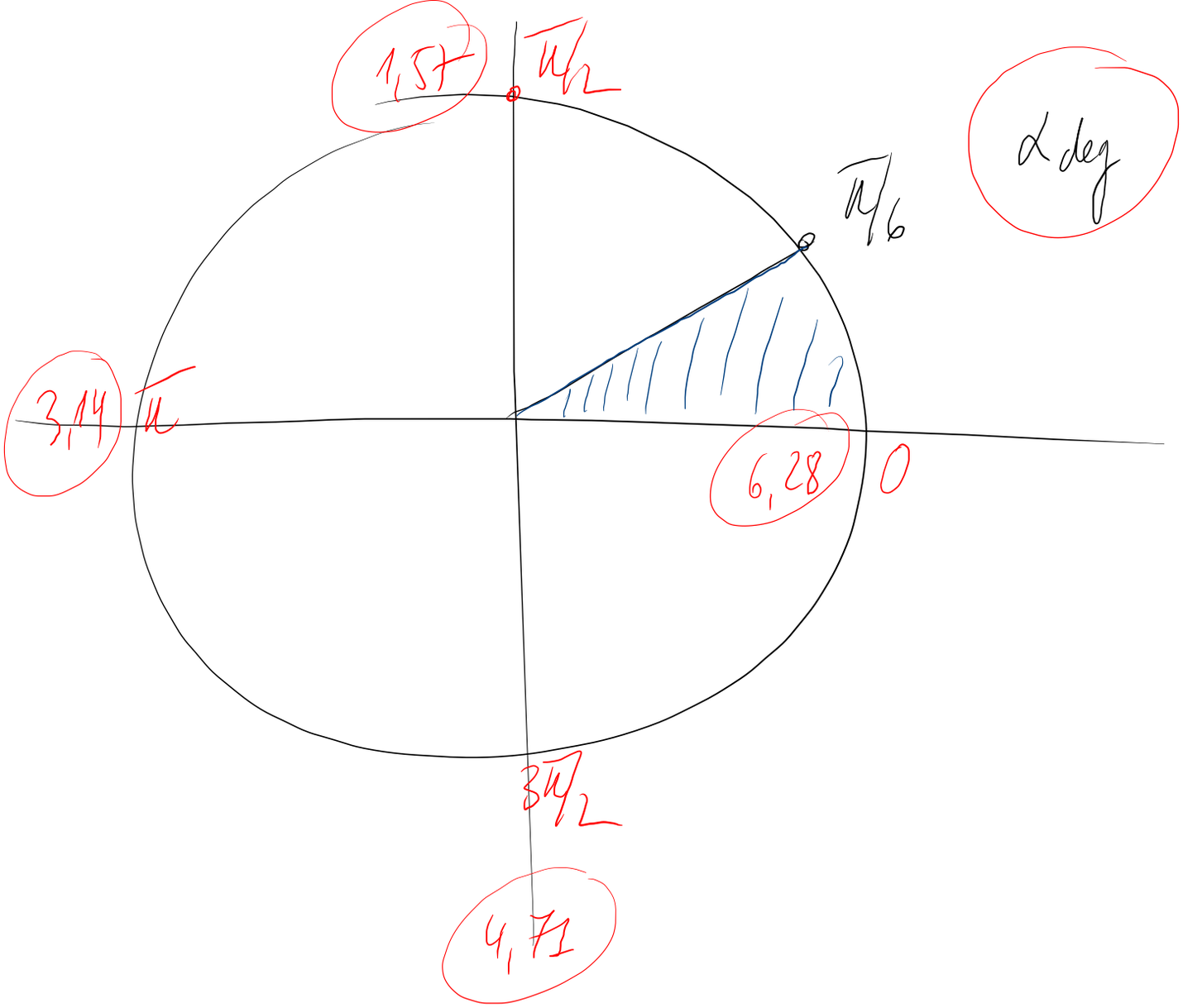
$$\frac{\frac{\pi}{6}}{2\pi}$$

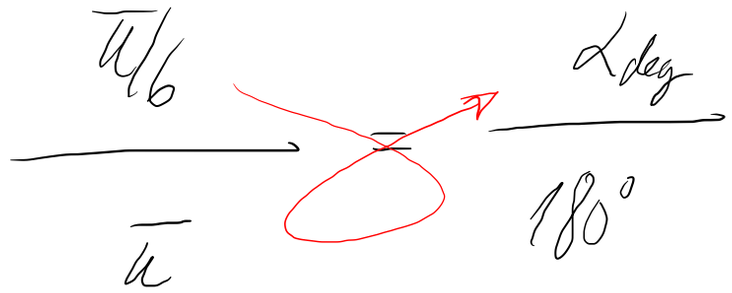
$$\Rightarrow \alpha = \frac{360^\circ}{12}$$

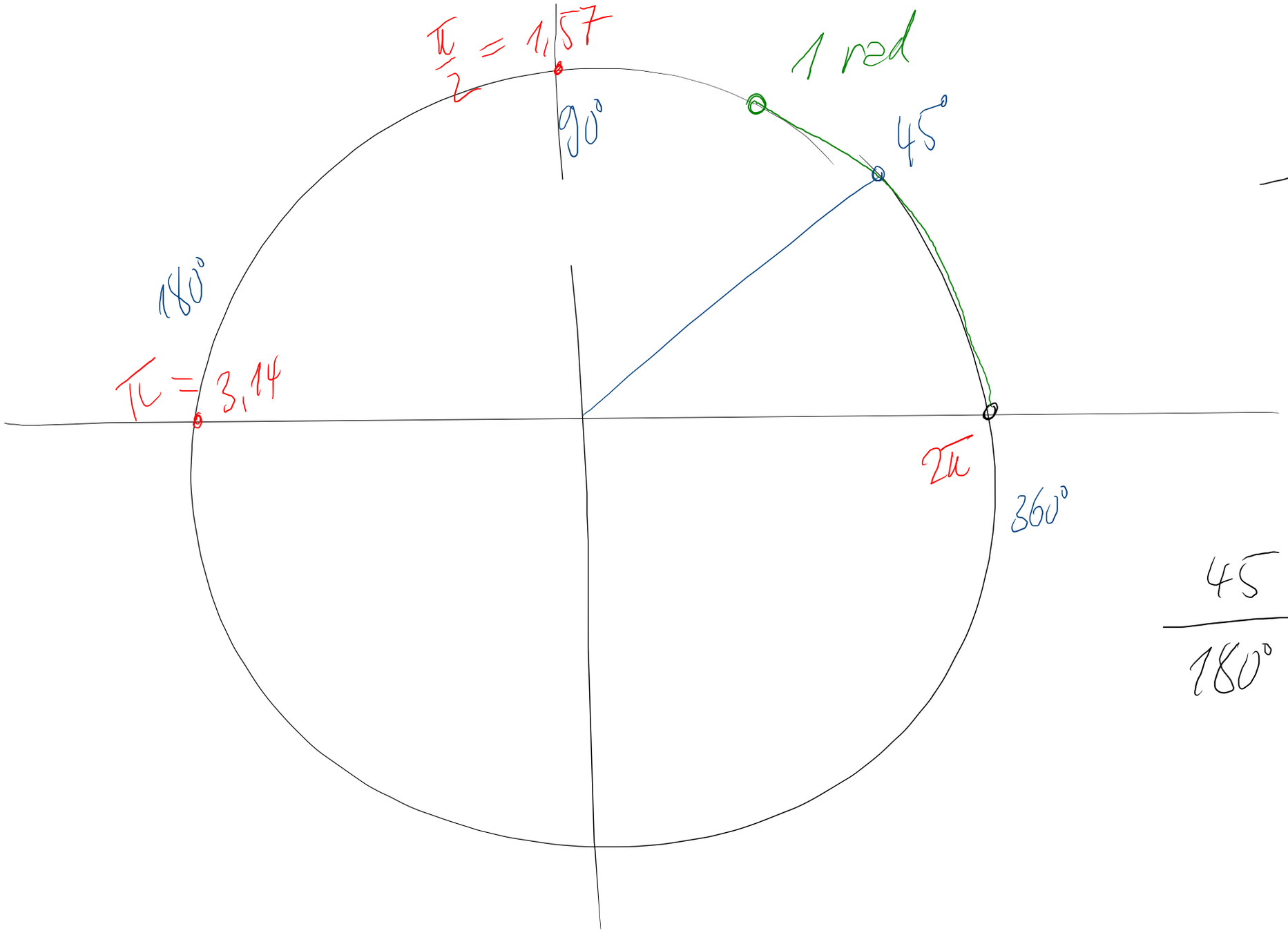
$$\frac{\frac{\pi}{6}}{(2 \cdot \pi)}$$

$$\frac{\alpha}{180^\circ} = \frac{\pi/6}{\pi}$$

$$\alpha = \frac{\pi/6}{\pi} \cdot 180^\circ$$


1,57
π/2
α deg
π/6
3,14
π
6,28
0
3π/2
4,71


π/6
α deg
π
180°



$$\frac{1}{\pi} = \frac{\alpha_{deg}}{180^\circ}$$

$$\frac{45}{180^\circ} \cdot \pi = \alpha_{rad} = \frac{\pi}{4}$$

$$\alpha = 1024720^{\circ}$$