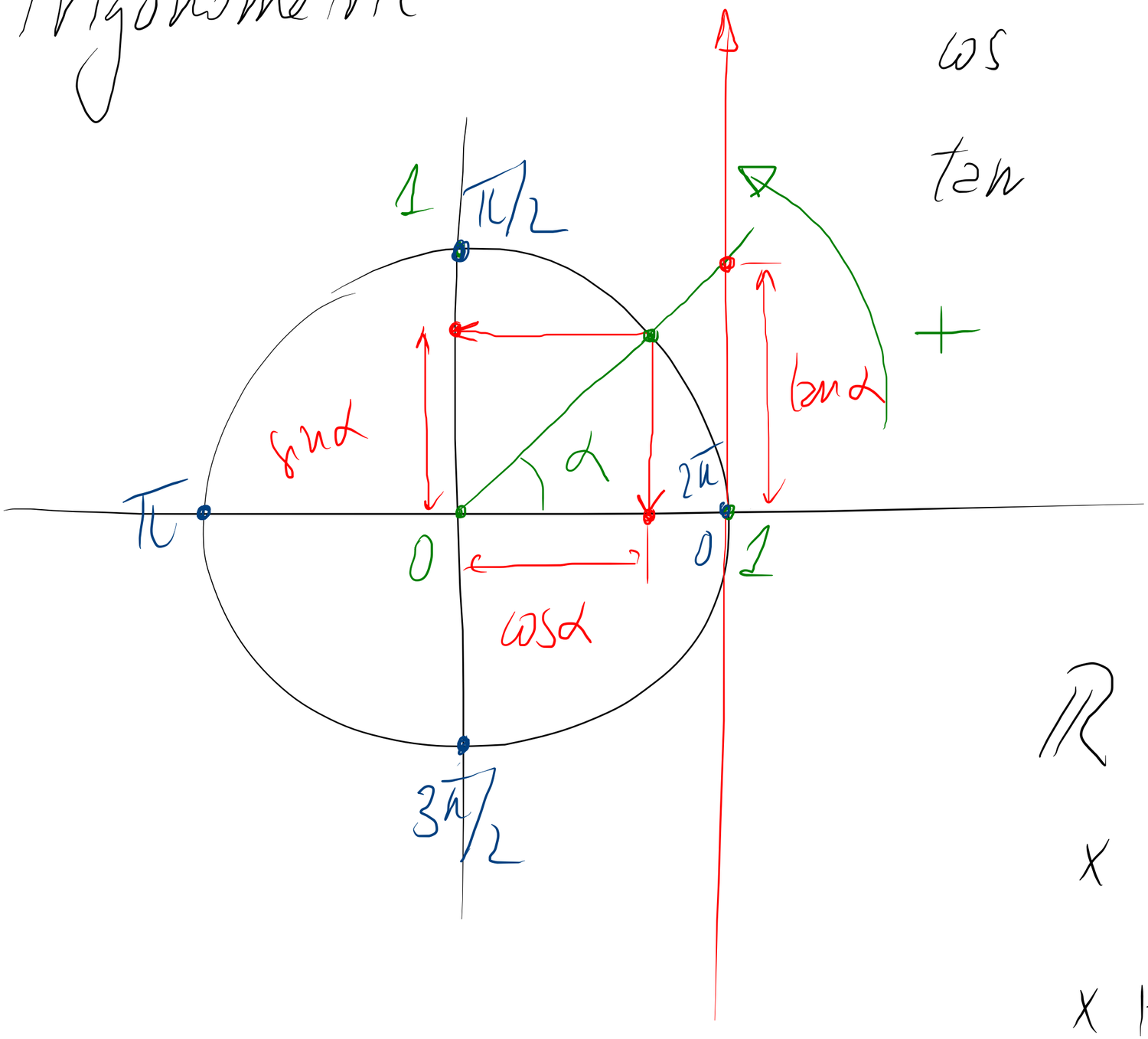
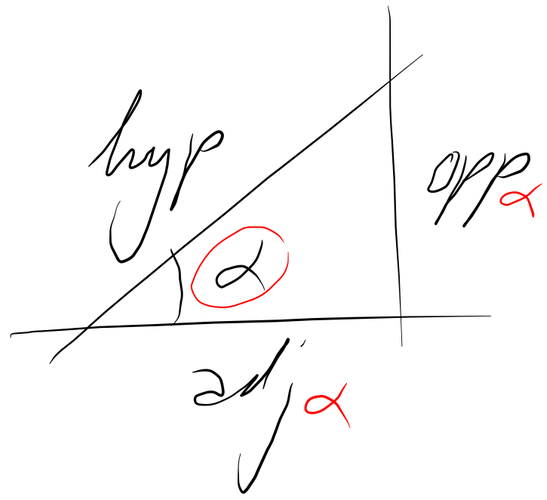
Trigonométrie

sin

cos

tan





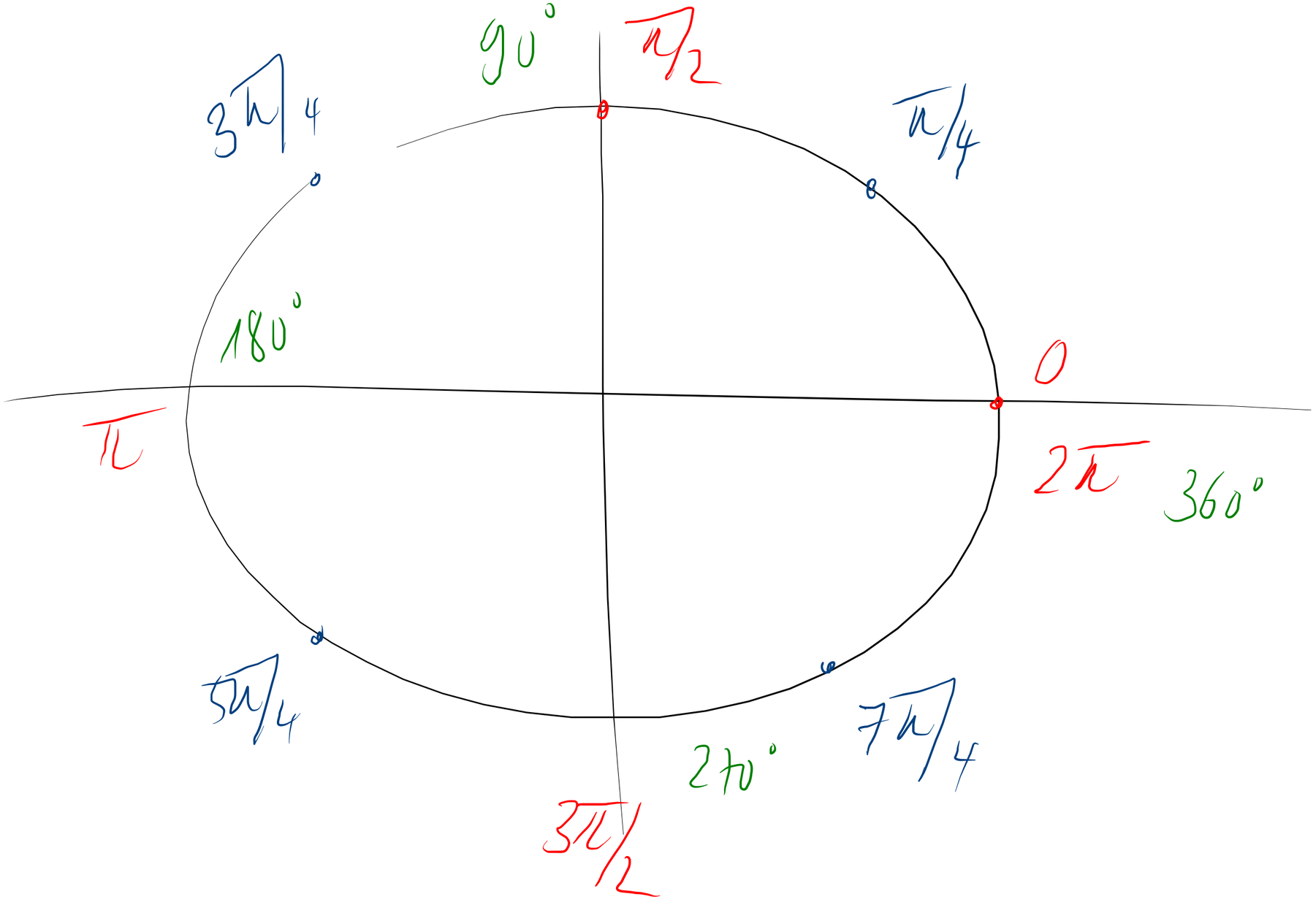
α radians

$$\mathbb{R} \longrightarrow \mathbb{R}$$

$$x \longmapsto \sin(x)$$

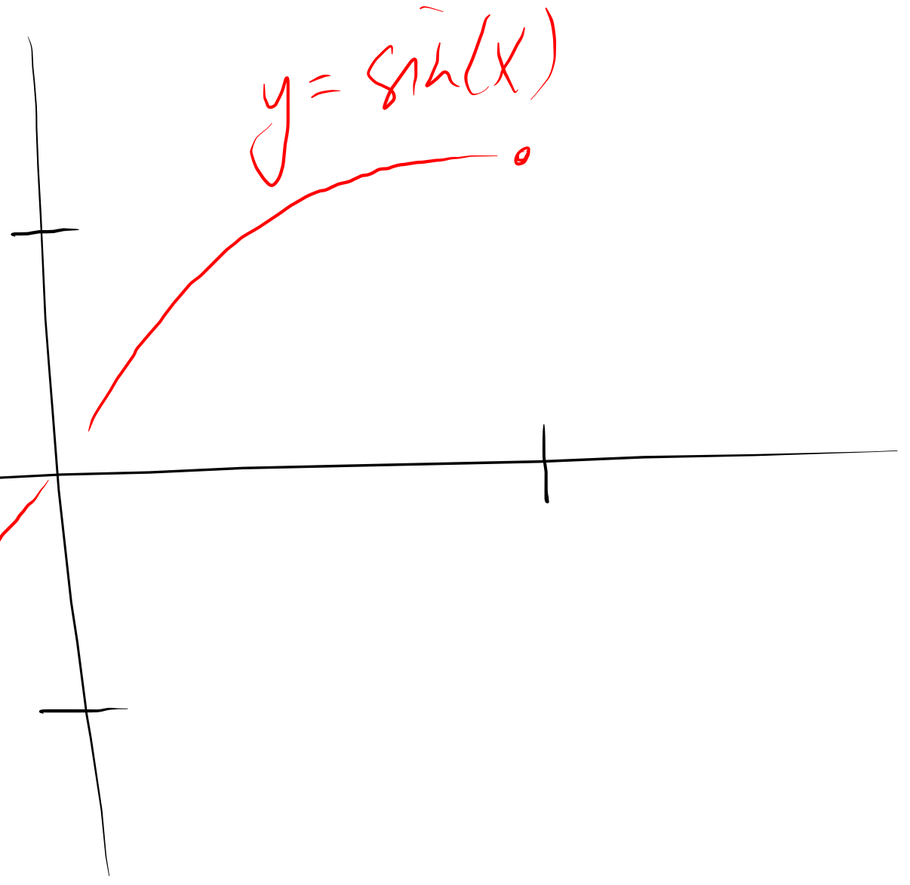
$$x \longmapsto \cos(x)$$

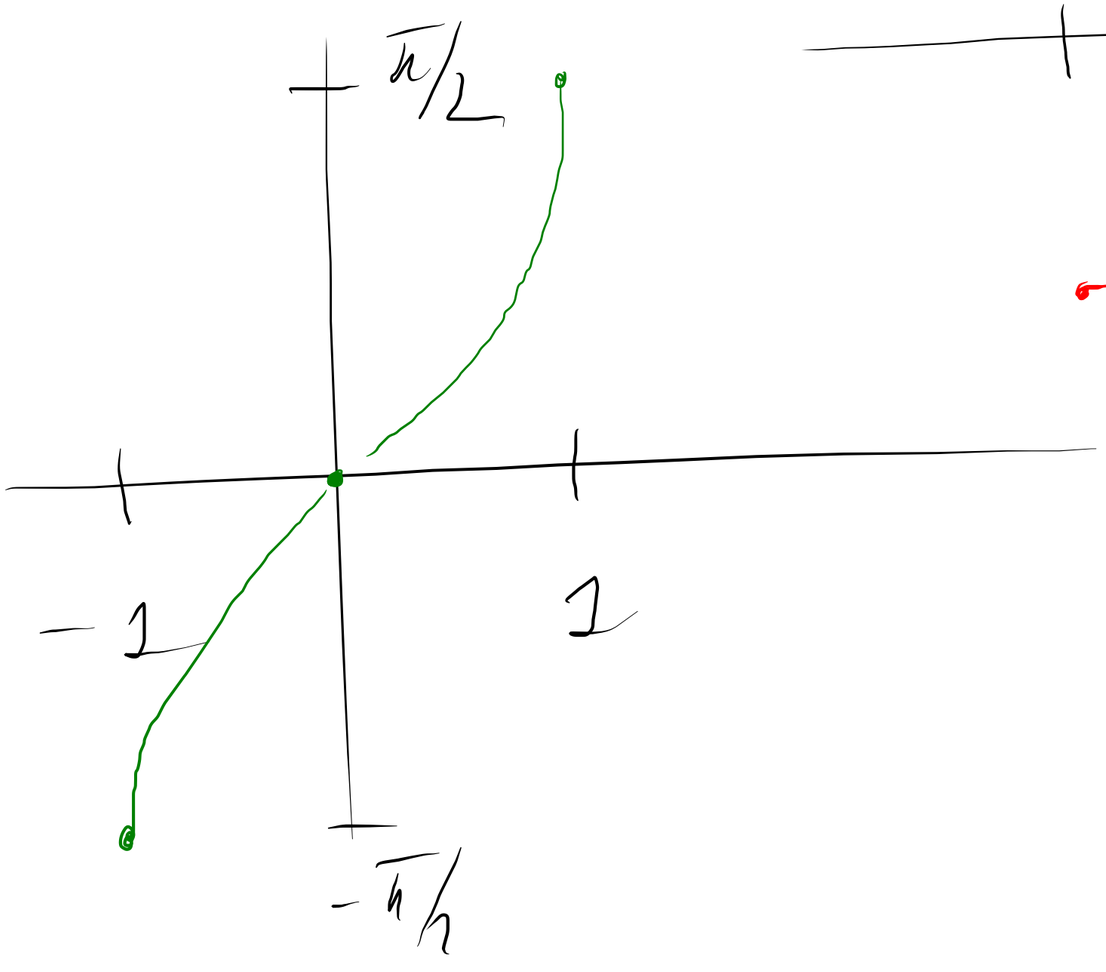
$$x \longmapsto \tan(x)$$

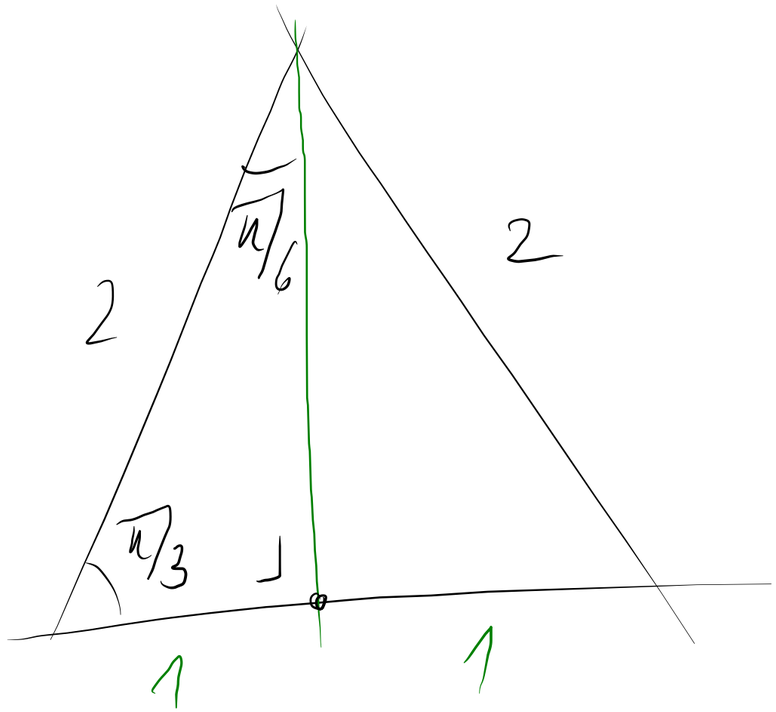

90°
π/2
3π/4
π/4
180°
0
π
2π
360°
5π/4
7π/4
270°
3π/2

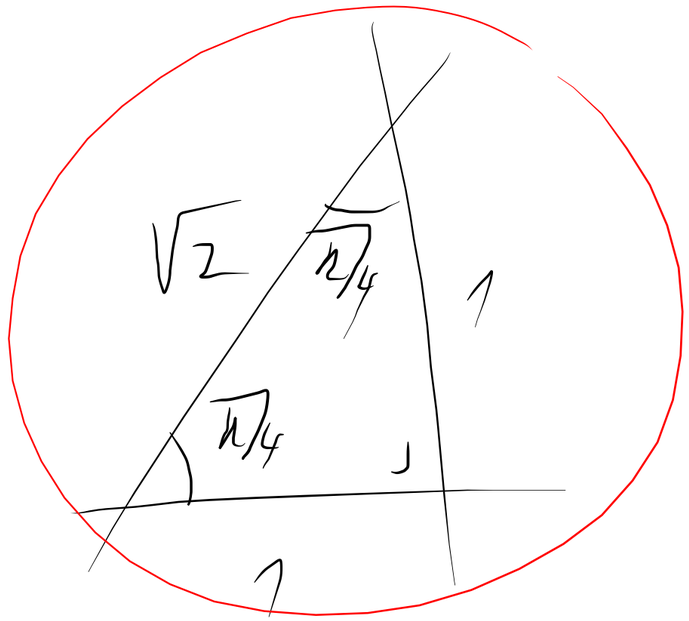
$$\left[-\frac{\pi}{2};\frac{\pi}{2}\right] \xrightarrow{\sin} [-1;1]$$

$$\arcsin$$



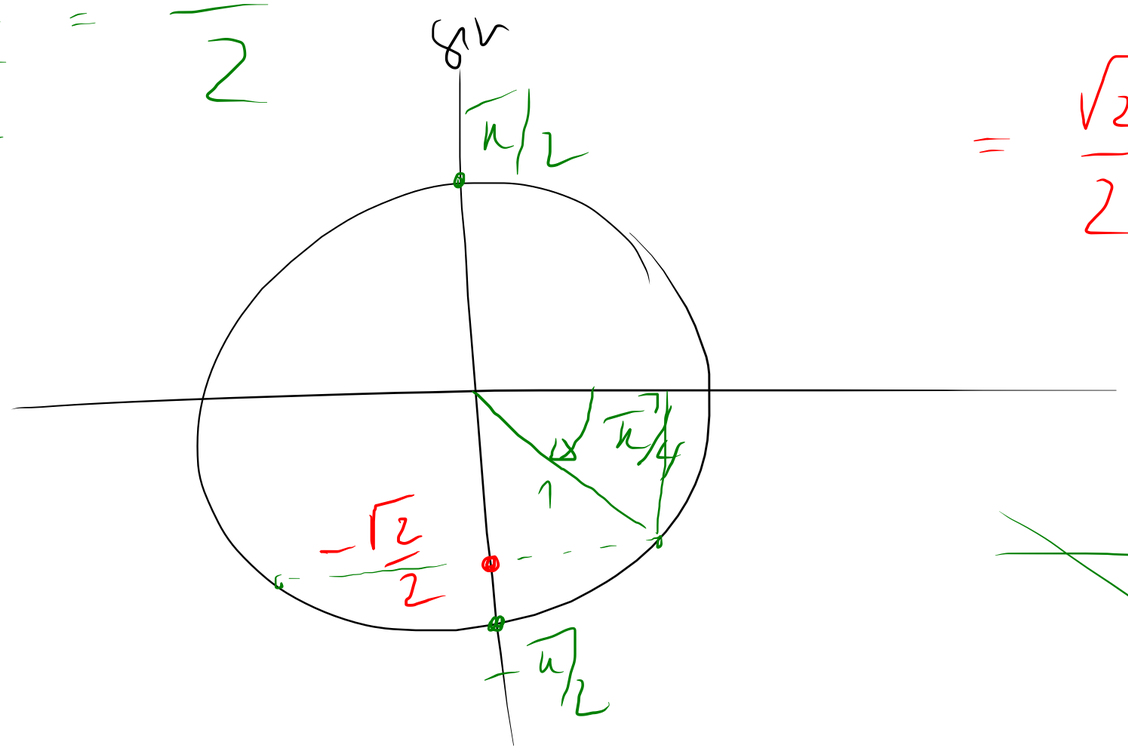






$$\cos\frac{\pi}{4} = \frac{1}{\sqrt{2}} = \sin\frac{\pi}{4}$$

$$\frac{1}{\sqrt{2}} = \frac{1\cdot\sqrt{2}}{\sqrt{2}\cdot\sqrt{2}} = \frac{\sqrt{2}}{2}$$



$$= \frac{\sqrt{2}}{2}$$