

$$4x^2 - 4x - 3 = 0$$

$$\Delta = b^2 - 4ac = (-4)^2 - 4 \cdot (4) \cdot (-3) = 64$$
$$= 16 + 48 = 64$$

$$x = \frac{4 \pm 8}{8} = \begin{cases} 12/8 = 1,5 \\ -0,5 \end{cases}$$

$$S = \{-0,5; 1,5\}$$

$$x = 1,5$$
$$x = -0,5$$

$$4 \cos^2 x - 4 \cos x - 3 = 0$$

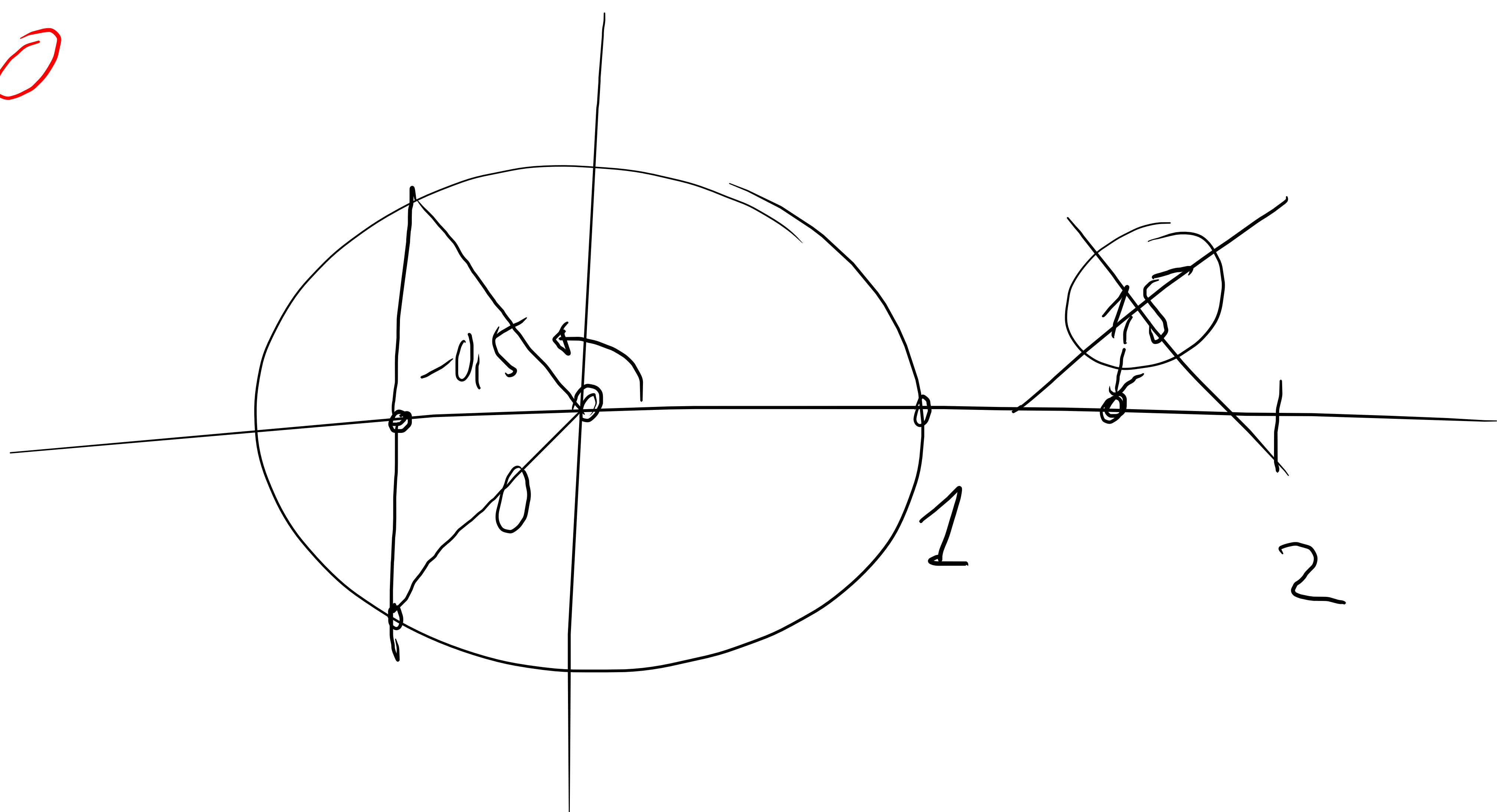
4.3.5 a/b

$$(\cos x)^2 \quad (\cos x)$$

$$4t^2 - 4t - 3 = 0$$

~~$t = 1,5$~~

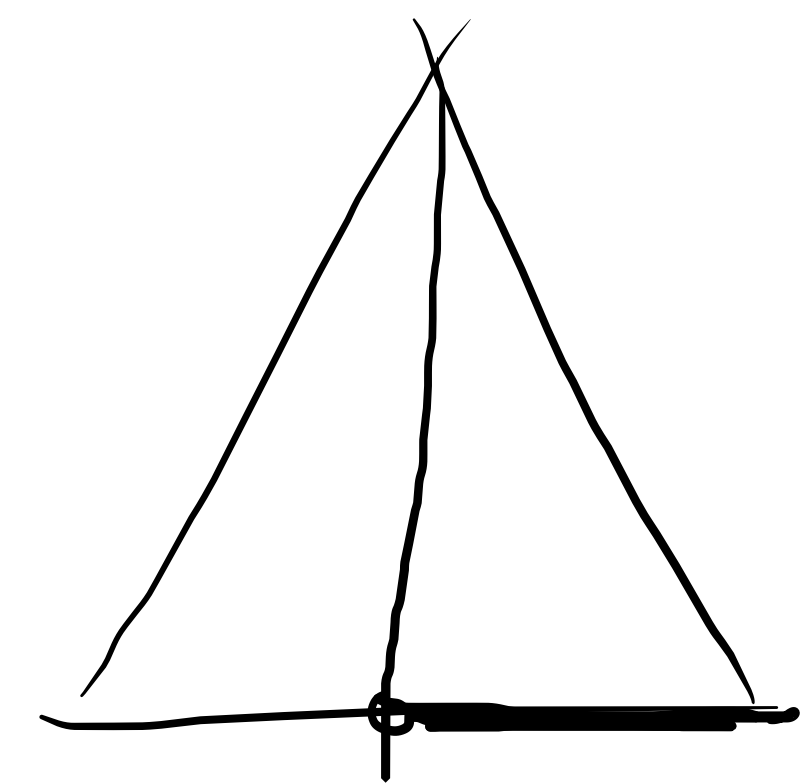
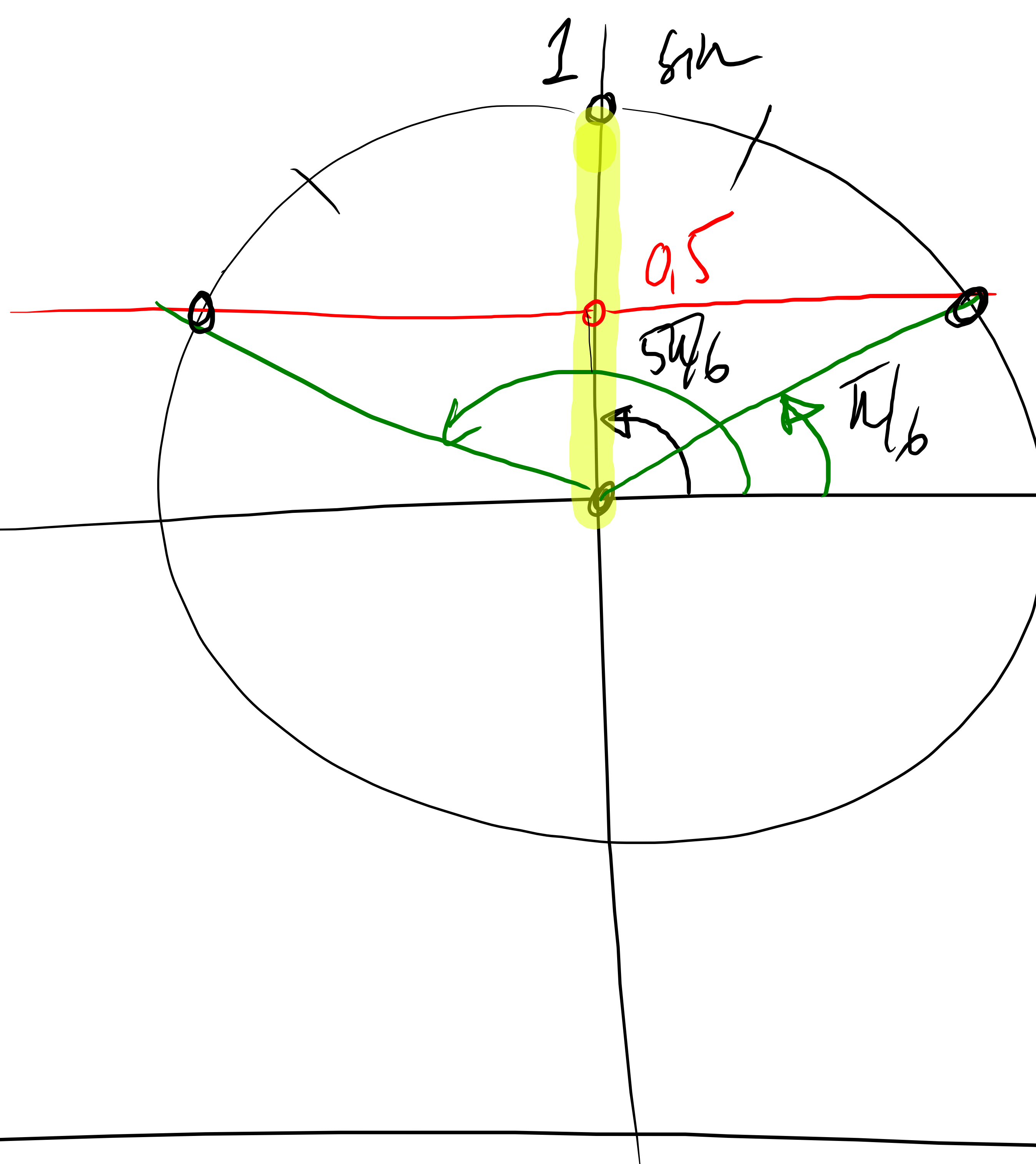
$$t = -0,5$$



$$\Re X = 1$$

$$X = \frac{\pi}{2} + k 2\pi$$

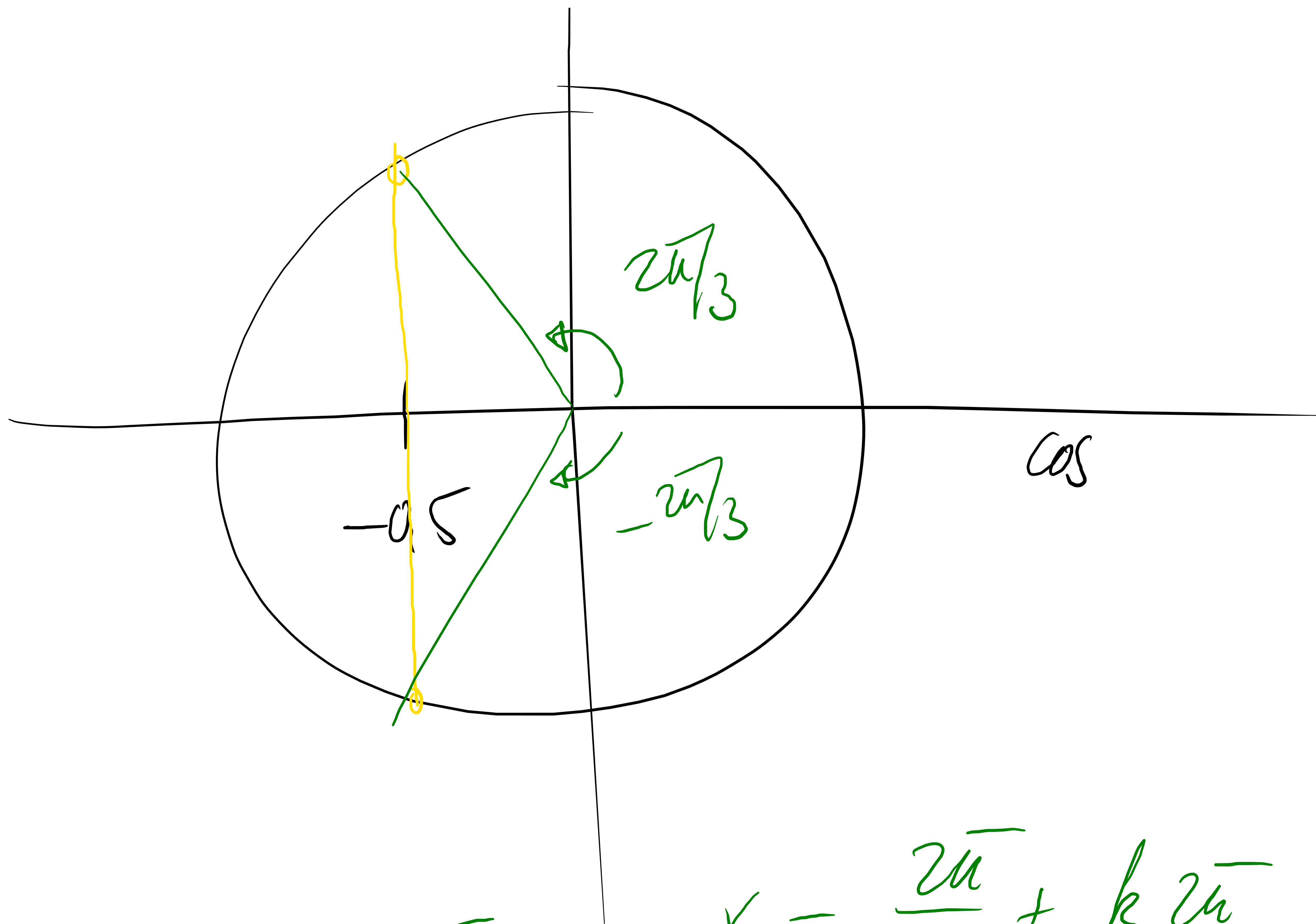
$$X = 90^\circ + k \cdot 360^\circ$$



$$\Re X = 0,5$$

$$X = \frac{\pi}{6} + k 2\pi$$

$$X = \frac{5\pi}{6} + k 2\pi$$



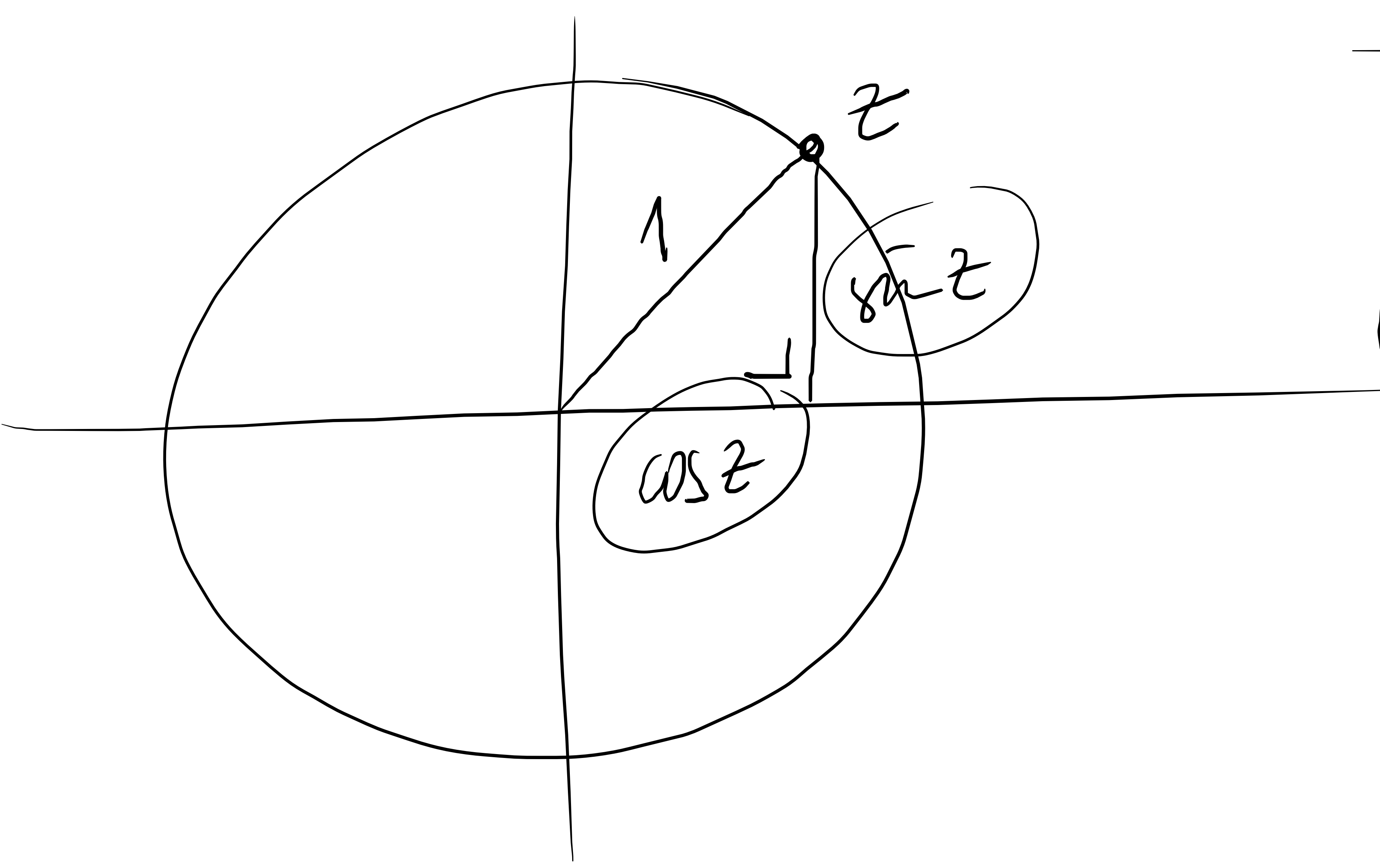
$$\cos x = -0,5$$

$$x = \frac{2\pi}{3} + k2\pi$$

$$x = -\frac{2\pi}{3} + k2\pi$$

4.3.5 c) d)

$$3 \sin^2 z + 8 \cos z + 1 = 0$$



$$\cos^2 z + \sin^2 z = 1$$

$$\sin^2 z = 1 - \cos^2 z$$

$$3(1 - \cos^2 z) + 8 \cos z + 1 = 0$$

$$-3 \cos^2 z + 8 \cos z + 4 = 0$$