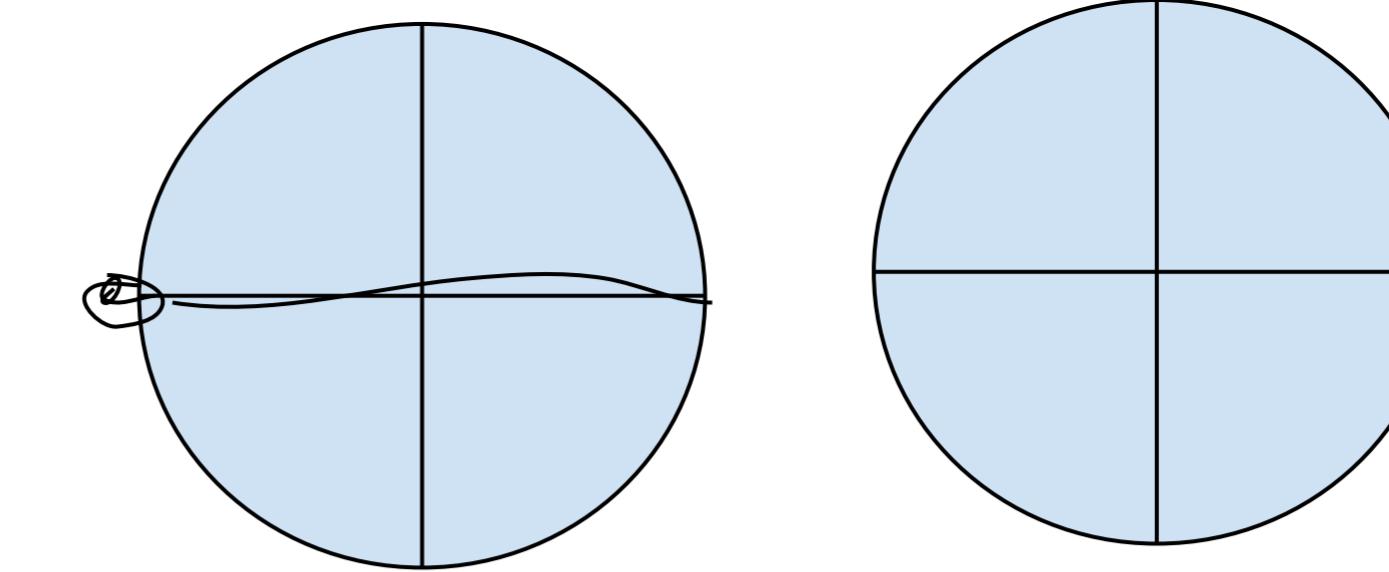


$\sin^4 x/3 + \cos^4 x/3 > 1/2$
 $\sin^4 t + \cos^4 t + 2\sin^2 t \cos^2 t = (\sin^2 t + \cos^2 t)^2$
 $\sin^4 t + \cos^4 t = (\sin^2 t + \cos^2 t)^2 - 2\sin^2 t \cos^2 t =$
 $1 - 2\sin^2 t \cos^2 t$
 $1/2 - 2\sin^2 t \cos^2 t > 0$
 $1 - (2 * \sin t * \cos t)^2 > 0$
 $1 - \sin^2 2t > 0$
 $\sin^2 2t < 1$
 $1 - \cos 4t < 2$
 $\cos 4t > -1$
 $4t = 4x/3$
 $-P + 2Pk < 4x/3 < P + 2Pk$

$$-3P/4 + 3Pk/2 < x < 3P/4 + 3Pk/2$$



НЕРАВЕНСТВО СУММА 4Х СТЕПЕНЕЙ

$$\sin^4 x/3 + \cos^4 x/3 > 1/2$$