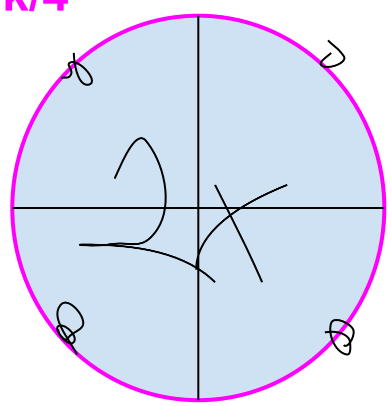
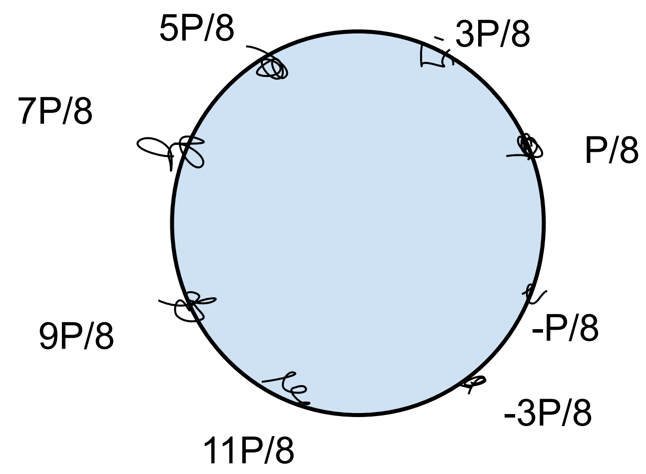
sin^8 x + cos^8 x=17/16 cos^2 2x
(sin^2 x)^4 + (cos^2 x)^4=17/16 cos^2 2x
((1-cos2x)/2)^4+((1+cos2x)/2)^4=17/16 * cos^2 2x
cos2x=z
((1-z)/2)^4+((1+z)/2)^4=17/16 * z^2
(1-z)^4/16+(1+z)^4/16=17/16*z^2
(1-4z+6z^2-4z^3+z^4+1+4z+6z^2+4z^3+z^4)/16=17/16*z^2|*16
2+12z^2+2z^4-17z^2=0
2z^4-5z^2+2=0
z^2=y
2y^2-5y+2=0
D=9
y1=(5+3)/4=2
y1=(5-3)/4=½
z^2=2
z=+-V2
z^2=½
z=+-V(1/2)
cos2x=V2
Реш нет
cos2x=V(1/2)
cos2x=V2/2
2x=+-P/4+2Pk
x=+-P/8+Pk
cos2x=-V2/2
2x=+-3P/4+2Pk
x=+-3P/8+Pk
Ответ:+-P/8+Pk;+-3P/8+Pk   == P/8 + Pk/4

cos2x=V2/2
cos2x=-V2/2
2x=P/4+Pk/2
x=P/8+Pk/4





cos2x=cos^2 x - sin^2 x=
=1 - sin^2 x - sin^2 x=1-2sin^2 x
=cos^2 x - (1-cos^2 x)=2cos^2 x - 1

cos2x=1-2sin^2 x
sin^2 x=(1-cos2x)/2

cos2x=2cos^2 x - 1
cos^2x=(1+cos2x)/2

1
1 1
1 2 1
1 3 3 1
1 4 6 4 1