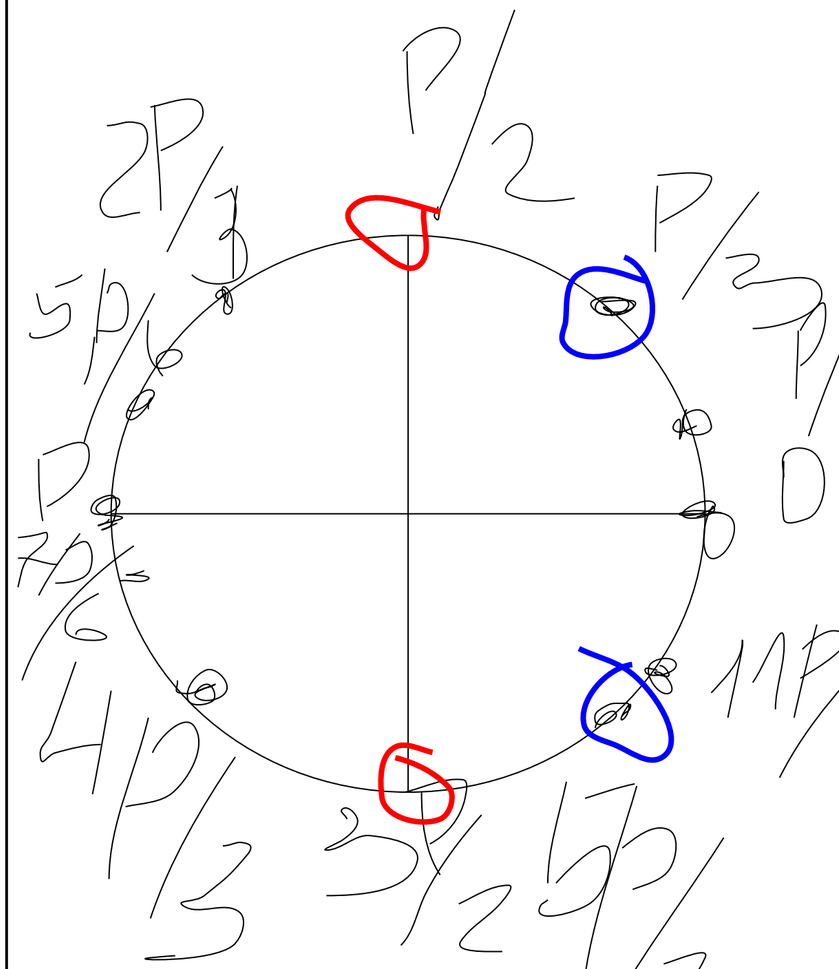
4cos^2 x - 4cos^2 3x * cosx + cos^2 3x=0
cosx=t
4t^2-4cos^2 3x*t+cos^2 3x=0
cos^2 3x=k

4t^2-4kt+k=0
D>=0
D=4cos^4 3x-4cos^2 3x=4cos^2 3x(cos^2 3x -1)=-4cos^2 3x*sin^2 3x>=0|*(-1)
4cos^2 3x*sin^2 3x<=0  => D=0
4cos^2 3x*sin^2 3x=0
4cos^2 3x=0  sin^2 3x=0
cos3x=0  sin3x=0
3x=P/2+Pk  3x=Pk
x=P/6+Pk/3  x=Pk/3
t=2cos^2 3x/4=cos^2 3x/2
cosx=cos^2 3x/2|*2
2cosx-cos^2 3x=0
2cosx-(1+cos6x)/2=0
4cosx-1-cos6x=0
4cos(0)-1-cos6(0)=4-1-1=2(не равно 0)
4cos(P/6)-1-cos6(P/6)=2V3-1-(-1)=2V3(не равно 0)
4cos(P/3)-1-cos6(P/3)=2-1-1=0
4cos(P/2)-1-cos6(P/2)=0-1-(-1)=0
4cos(2P/3)-1-cos6(2P/3)=-2-1-1=-4(не равно 0)
4cos(5P/6)-1-cos6(5P/6)=-2V3-1+1=-2V3(не равно 0)
4cos(P)-1-cos6(P)=-4-1+1=-4(не равно 0)
4cos(7P/6)-1-cos6(7P/6)=-2V3-...(не равно 0)
4cos(4P/3)-1-cos6(4P/3)=-2-1...(не равно 0)
4cos(3P/2)-1-cos6(3P/2)=0-1+1=0
4cos(5P/3)-1-cos6(5P/3)=2-1-1=0
4cos(11P/6)-1-cos6(11P/6)=2V3-1-(-1)=2V3(не равно 0)




Ответ:P/2+Pk;+-P/3+2Pk