7/4 * Cos(x/4) = Cos^3 (x/4) + Sin (x/2) |*4
7*cos(x/4)=4cos^3 (x/4)+ 4sin(x/2)
7*cos(x/4)=4cos^3 (x/4)+8sin(x/4)*cos(x/4)
cos(x/4)*(4cos^2 (x/4)+8sin(x/4)-7)=0
cos(x/4)=0
x/4=P/2+Pk
x=2P+4Pk
4cos^2 (x/4)+8sin(x/4) - 7=0
4(1-sin^2 (x/4))+8sin(x/4)-7=0
4sin^2 (x/4)-8sin(x/4)+3=0
sin(x/4)=x
4x^2-8x+3=0
D=16-12=4
x1=(4+2)/4=3/2
x2=(4-2)/4=½
sin(x/4)=3/2
sin(x/4)=½
x/4=P/6+2Pk
x/4=5P/6+2Pk
x=2P/3+8Pk
x=10P/3+8Pk
Ответ:2P/3+8Pk; 10P/3+8Pk; 2P+4Pk.