tgx - tg2x=sinx
sinx/cosx - sin2x/cos2x = sinx
(sinx*cos2x - sin2x*cosx)/cosx*cos2x = sinx
sin(-x)/cosx*cos2x = sinx
-sinx/cosx*cos2x -sinx=0
-sinx (1/cosx*cos2x + 1)=0
sinx=0
x=Pk

cosx*cos2x=-1
----------1 способ----------
t*(2t^2-1)=-1
2t^3-t+1=0
+-½ +-1

2t^2-2t+1=0
D<0

t=-1
cosx=-1
x=P+2Pk

Ответ Pk

----------2 способ----------
cosx*cos2x=-1

cosx=-1 x=P+2Pk
cos2x=1 2x=2Pk x=Pk
x=P+2Pk

cosx=1 x=2Pk
cos2x=-1 2x=P+2Pk x=P/2+Pk
нет решений
----------3 способ----------
cos(x+y)+cos(x-y)=2cos x*cos y