tgx - tg2x=sinx

sinx/cosx-sin2x/cos2x=sinx

(sinx*cos2x-sin2x*cosx)/cos2x*cosx=sinx

sin(x-2x)/cos2x*cosx=sinx

-sinx/cos2x*cosx=sinx

-sinx(1/cos2x*cosx+1)=0

sinx=0

x=pk

1/cos2x*cosx+1=0

1 способ

cos2x*cosx+1=0

(2cos^2x-1)*cosx+1=0

cosx=t

2t^3-t+1=0

(t- (-1)) * (2t^2 - 2t + 1)=0

t+1=0

cosx=-1

x=p+2pk

	2	0	-1	1
-1	2	-2	1	0

$$+\frac{1}{-}\frac{d}{2}d$$

$$+\frac{1}{-2} \quad +\frac{1}{-1}$$

2 способ

cos2x*cosx+1=0

cos2x*cosx=-1

cos2x=-1   2cos^2 x - 1 = -1   2-1!=-1

cosx=1

или

cos2x=1   2cos^2x-1=1   2*1-1=1

cosx=-1

cos2x=1

2x=2Pk

x=Pk

x=P + 2Ph

Answer: x=pk

ОДЗ

cosx!=0
cos2x!=0
cosx=0
x=p/2+pk
cos2x=0
2x=p/2+pk
x=p/4+pk/2