(sin x + cos x)/cos x + 3sin2x = cos^2 2x + tg x
sinx/cosx+1+3sin2x=cos^2 2x+tg x
cosx!=0
1+3sin2x-cos^2 2x=0
sin^2 2x +3sin2x=0
sin2x=t
t^2+3t=0
t(t+3)=0
t=-3
t=0
sin2x=-3
Нет решений
sin2x=0
2x=pk
x=pk/2