(**sinx** + sin3x + **sin5x**) / (**cosx**+cos3x+**cos5x**) +   2tgx=0
(2sin((x+5x)/2)cos((x-5x)/2)+sin3x)/(cos3x+2cos((x+5x)/2cos((x-5x)/2))+2tgx=0
(2sin((6x)/2)cos((-4x)/2)+sin3x)/(cos3x+2cos((6x)/2cos((-4x)/2))+2tgx=0
(2sin((6x)/2)cos((-4x)/2)+sin3x)/(cos3x+2cos((6x)/2cos((-4x)/2))+2sinx/cosx=0
(2sin(3x)cos(-2x)+sin3x)/(cos3x+2cos(3x)cos(-2x))+2sinx/cosx=0
(sin3x(2cos(-2x)+1))/(cos3x(1+2cos(-2x))+2sinx/cosx=0
sin3x/cos3x+2sinx/cosx=0
(sin3x*cosx+2sinx*cos3x)/(cos3x*cosx)=0
sin3x*cosx+2sinx*cos3x=0
½[sin(3x+x)+sin(3x-x)]+sin(x+3x)+sin(x-3x)=0
½[sin(4x)+sin(2x)]+sin(4x)+sin(-2x)=0
½*sin4x+½*sin2x+sin(4x)-sin(2x)=0
3/2sin4x+1/2sin2x=0
3sin4x+sin2x=0
6sin2x*cos2x+sin2x=0
sin2x(6cos2x+1)=0

sin2x=0
2x=pk
x=pk/2

6cos2x+1=0
6cos2x=-1
cos2x=-⅙
x=-arccos(⅙)/2+pk
x=arccos(⅙)/2+pk

cos3x*cosx!=0
cos3x!=0
3x=p/2+pk
x=p/6+pk/3
cosx!=0
x!=p/2+pk

2cos(-2x)+1!=0
2cos(2x)!=-1
cos(2x)!=-½
2x!=5P/6+2PK
x!=5p/12+pk
x!=7p/12+pk
Ответ:-arccos(⅙)/2+pk; arccos(⅙)/2+pk;
pk;