sinx * cos(x+y) + sin(x+y)=3cos(x+y)
4sinx = 5ctg(x+y)

sinx * cos(x+y) + sin(x+y)=3cos(x+y) :sin(x+y)
sinx * ctg(x+y) + 1=3 ctg(x+y)
sinx=a
ctg(x+y)=b
sin(x+y)!=0 - не равен
4sinx = 5ctg(x+y)

ab+1=3b
4a=5b
a=5/4b
5/4b^2-3b+1=0
5b^2-12b+4=0
D/4=4^2
b1=⅖
b2=2
a1=5/4 * ⅖=½
a2=5/4* 2=5/2
sinx=½
x1=P/6+2Pk
x2=P-P/6+2Pk
sinx=5/2 - не существует

ctg(x+y)=⅖
x+y=arcctg2/5+Pn
y1=arcctg2/5+Pn-P/6-2Pk
y2=arcctg2/5+Pn-P+P/6-2Pk

Ответ (P/6+2Pk;arcctg2/5+Pn-P/6-2Pk)
(P-P/6+2Pk;arcctg2/5+Pn-P+P/6-2Pk)