5+2sin2x - 5cosx = 5sinx

2+4sinxcosx=5(cosx+sinx)-3

2(1+2sinxcosx)=5(cosx+sinx)-3

2(sin^2 x+2sinxcosx + cos^2 x)=5(cosx+sinx)-3

2(sinx+cosx)^2=5(cosx+sinx)-3

(cosx+sinx)=t

2t^2-5t+3=0

t=1   t=3/2

sinx+cosx=1

V2(1/V2 sinx + 1/V2 cosx)=V2(sinx*cosP/4 + cosx*sinP/4)=V2*sin(x+P/4)

V2*sin(x+P/4)=1

sin(x+P/4)=1/V2

x+P/4 = P/4 + 2Pk

x =2Pk

x+P/4 = 3P/4 + 2Pk

x = P/2 + 2Pk

sinx+cosx=3/2

V2*sin(x+P/4)=3/2

sin(x+P/4)=3/2V2 == 3/2.8

нет решений