cos2x=cos^2(x)-sin^2(x)

V(sinx + cosx)=cos2x

sinx + cosx=cos^2(2x)   cos2x>=0
sinx + cosx=(cos^2x-sin^2x)^2
sinx + cosx=(cosx-sinx)^2(cosx+sinx)^2
sinx + cosx-(cosx-sinx)^2(cosx+sinx)^2=0
(sinx+cosx)(1-(cosx-sinx)^2(cosx+sinx))=0
sinx+cosx=0
V2[sinx*1/V2+cosx*1/V2]=V2[sinx*cosP/4+cosx*sinP/4]=
=V2sin(x+P/4)
cost=1/V2
sint=1/V2
t=P/4
sin(x+P/4)=0
x+P/4=Pk
x=Pk-P/4

1-(cosx-sinx)^2(cosx+sinx)=0
1-(cosx^2-2cosx*sinx+sinx^2)(cosx+sinx)=0
1-(1-2cosx*sinx)(cosx+sinx)=0
Пусть sinx+cosx=t
(sinx+cosx)^2=t^2
sin^2x+2sinx*cosx+cosx^2=t^2
1+2sinx*cosx=t^2
2sinx*cosx=t^2-1

1-(1-2cosx*sinx)(cosx+sinx)=0
1-(1-(t^2-1))(t)=0
1-(2-t^2)(t)=0
1-2t+t^3=0
t^3-2t+1=0
t=1
t^2+t-1=0
D=1+4=5
t1=(-1+V5)/2
t2=(-1-V5)/2
sinx+cosx=(-1+V5)/2
V2*sin(x+P/4)=(-1+V5)/2
sin(x+P/4)=(-1+V5)/(2V2)
x+P/4=arcsin((-1+V5)/(2V2))+2Pk
x=arcsin((-1+V5)/(2V2))-P/4+2Pk

x+P/4=P-arcsin((-1+V5)/(2V2))+2Pk
x=3P/4-arcsin((-1+V5)/(2V2))+2Pk
sinx+cosx=(-1-V5)/2
V2*sin(x+P/4)=(-1-V5)/2
sin(x+P/4)=(-1-V5)/(2V2)
Корней нет

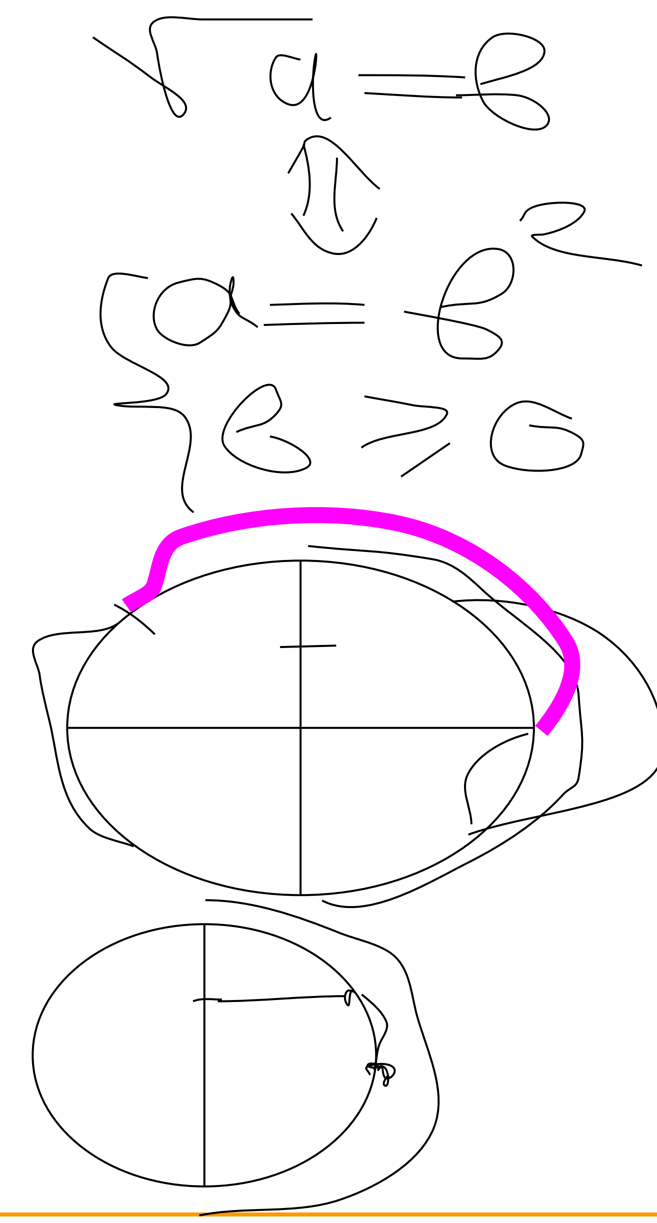
sinx+cosx=1
V2*sin(x+P/4)=1
sin(x+P/4)=1/V2
x+P/4=P/4+2Pk
x=2Pk

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

Ответ до проверки: arcsin((-1+V5)/(2V2))-P/4+2Pk
3P/4-arcsin((-1+V5)/(2V2))+2Pk
Pk-P/4
2Pk
P/2+2Pk

cos2x>=0

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



	1	0	-2	1	
1	1	1	-1	0	

V(1-cos2x)=sin2x
1-cos2x=sin^2(2x)
1-(cos^2x-sin^2x)=sin^2(2x)
1-(cosx-sinx)(cosx+sinx)=1-cos^2(2x)
cos2x=cos^2(2x)
cos2x-cos^2(2x)=0
cos2x(1-cos2x)=0
cos2x=0
2x=P/2+Pk
x=P/4+Pk/2

1-cos2x=0
cos2x=1
2x=2Pk
x=Pk

sin2x>=0
2Pk<=2x<=P+2Pk
Pk<=x<=P/2+Pk

Ответ:
x=P/4+Pk
x=Pk