arcsinx * arccosx = -1

arcsinx э [-P/2;P/2]

arccosx э [0;P]

-1<=x<=1

-1<=x<=1

(P/2-arccosx)arccosx=-1

P/2arccosx-arccos^2x+1=0

arccosx=t

-t^2+P/2t+1=0

t^2-P/2t-1=0

D=P^2/4+4=(P^2+16)/4

t=(P/2+V(P^2+16)/2)/2=P/4+V(P^2+16)/4=

(P+V(P^2+16))/4

t=(P-V(P^2+16))/4

arccosx э [0;P]

arccosx=(P+V(P^2+16))/4 -- подходит

arccosx=(P-V(P^2+16))/4 -- отриц -- не

подходит

arccosx=(P+V(P^2+16))/4 \\cos

x=cos((P+V(P^2+16))/4)

V(1-ctgx)=cosx-sinx

cosx-sinx=V2sin(x+3P/4)

V2sin(x+3P/4)>=0

sin(x+3P/4)>=0

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

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

1-ctgx=cos^2x-2cosx*sinx + sin^2x

1-ctgx=cos^2x-2cosx*sinx + sin^2x

1-ctgx=1-2cosxsinx

ctgx=2cosxsinx

ctgx-2cosxsinx=0

cosx(1/sinx-2sinx)=0

cosx=0

x=P/2+Pk

1/sinx-2sinx=0

1-2sin^2x=0

sinx!=0

1-(1-cos2x)=0

cos2x=0

2x=P/2+Pk

x=P/4+Pk/2

Ответ x=P/4+Pk;-P/2+2Pk;-P/4+2Pk.