$\sqrt{a}=b \Longleftrightarrow \begin{cases} b \geq 0 \\ a=b^2 \end{cases}$

V(cosx + V3*sinx - 2) = cos(x/2)+V3/2
0<=cos(x/2)+V3/2

cosx+V3sinx-2=cos^2(x/2)+V3cos(x/2)+¾
cosx+2V3sin(x/2)*cos(x/2)-2=cos^2(x/2)+V3cos(x/2)+¾
2cos^2(x/2)+2V3sin(x/2)*cos(x/2)-3=cos^2(x/2)+V3cos(x/2)+¾
2cos(x/2)(cos(x/2)+2V3sin(x/2))-3=cos^2(x/2)+V3cos(x/2)+¾
cos(x/2)(2cos(x/2)+2V3sin(x/2)-V3-cos^2(x/2))-3-¾=0
cos(x/2)(cos(x/2)+2V3sin(x/2)-V3)-3-¾=0
cos(x/2)(cos(x/2)+2V3sin(x/2)-V3)-3-¾=0

cosx + V3*sinx - 2>=0
1*cosx + V3*sinx >= 2
2(cosx*sina+sinx*cosa)>=2
sina=½
cosa=V3/2
a=P/6
cosx*sin(P/6)+sinx*cos(P/6)>=1
sin(x+P/6)>=1
sin(x+P/6)=1
x+p/6=P/2+2pk
x=P/3+2pk

cos(x/2)+V3/2=0
cos(x/2)=-V3/2
x/2=+-5P/6+2pn
x=+-5p/3+4pn
5p/3+4pn=P/3+2pk
4pn-2pk=-4p/3
12n-6k=-4
6n-3k=-2
НОД=3 Нет решений
-5p/3+4pn=P/3+2pk
-2=2k-4n
k-2n=-1
НОД=1
k0=1
n0=1
k=1-2t
n=1-t
Проверка
1-2t-2+2t=-1
Ответ:7p/3-4pt