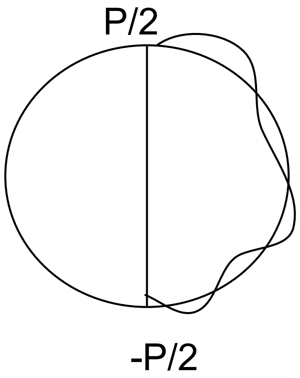
а) Решите уравнение $\dfrac{2\sin^2 x + 2\sin x\cos 2x - 1}{\sqrt{\cos x}} = 0.$

б) найдите все его корни, принадлежащие отрезку $\left[-\dfrac{9\pi}{4}; \dfrac{17\pi}{6}\right]$.

(2sin^2x+2sinxcos2x-1)/(Vcosx)=0
(2sin^2x+2sinx(1-2sin^2x)-1)/(Vcosx)=0
(2sin^2x+2sinx-4sinxsin^2x-1)/(Vcosx)=0
(2sin^2x+2sinx-4sin^3x-1)/(Vcosx)=0
Vcosx!=0   cosx>0
sinx=y
2y^2+2y-4y^3-1=0
y=½
-4y^2+2=0
y^2=½
y=+-1/V2

sinx=½	sinx=1/V2	sinx=-1/V2
x=P/6+2Pk	x=P/4+2Pk	x=-P/4+2Pk
x=5P/6+2Pk	x=3P/4+2Pk	x=-3P/4+2Pk

cosx>0
-P/2+2Pk<x<P/2
+2Pk



-9P/4<=P/6+2Pk<=17P/6
-54P/4<=P+12Pk<=17P
-54/4<=1+12k<=17
-54/4-1<=12k<=17-1
-29/2<=12k<=16
-29/24<=k<=16/12
k=-1;0;1

-9P/4<=P/4+2Pk<=17P/6
-9<=1+2k<=17*4/6
-10<=2k<=62/6
-5/4<=k<=31/24
k=-1;0;1

-9P/4<=-P/4+2Pk<=17P/6
-1<=k<=37/24
k=-1;0;1

x=P/6+2P=13P/6
x=P/6-2P=-11P/6
x=P/6

x=P/4+2Pk=9P/4
x=P/4-2Pk=-7P/4
x=P/4

x=-P/4+2Pk=7P/4
x=-P/4-2Pk=-9P/4
x=-P/4