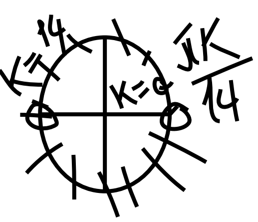
cosx*cos2x*cos4x*cos8x=⅛*cos15x |* 8sinx
sin2x=2sinx*cosx
8sinx*cosx*cos2x*cos4x*cos8x=cos15x*sinx
4sin2x*cos2x*cos4x*cos8x=cos15x*sinx
2sin4x*cos4x*cos8x=cos15x*sinx
sin8x*cos8x=cos15x*sinx
sin16x=2cos15x*sinx
sin16x=sin(16x)-sin(14x)
sin14x=0
14x=pk
x=pk/14 при k!=14n

пусть
sinx=0
cosx=+-1
cos2x=2cos^2x-1=2-1=1
cos4x=2cos^2 2x -1=2-1=1
cos8x=1
cos15x=cos(16x-x)=cos16x*cosx+sinx*sin16x=1+0=1 или -1
+-1!=+-⅛
Значит предположение неверно



cos(3y/2)+sin(5y/2)=0
cos(2y-y/2)+sin(2y +y/2)=0
cos2y*cosy/2+siny/2*sin2y+sin2y*cosy/2+sin y/2*cos2y=0
cos2y(cosy/2+siny/2)+sin2y(cosy/2+siny/2)=0
(cos2y+sin2y)(cosy/2+siny/2)=0
cos2y+sin2y=0
V2(1/V2cos2y+1/V2sin2y)=0
1/V2=sint
1/V2=cost
V2(sint*cos2y+cost*sin2y)=0
V2(sin(t+2y)=0
sin(p/4+2y)=0
p/4+2y=pk
2y=pk-p/4
y=pk/2-p/8

(cosy/2+siny/2)=0
sin(p/4+y/2)=0
p/4+y/2=pk
y=2pk+p/2

siny + cos3y=1-2sin^2y + sin2y
siny+cos3y-1+2sin^2y-sin2y=0
2cos(3y)/2sin(-y)/2+cos3y-cos2y=0
2cos(3y/2)sin(-y)/2+2sin(5y/2)sin(-y/2)=0
(2cos(3y/2)+2sin(5y/2))*(2sin(-y/2))=0
2sin(-y/2)=0
-2siny/2=0
sin y/2=0
y/2=pk
y=2pk

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cos(3y/2)+sin(5y/2)=0
sin(P/2-3y/2)+sin(5y/2)=0
2sin(P/2-3y/2+5y/2)/2*cos(P/2-3y/2-5y/2)/2=0
2sin(P/2+2y/2)/2*cos(P/2-8y/2)/2=0
2sin(P/2+2y/2)/2=0
sin((P/2+2y/2)/2)=0
(P/2+2y/2)/2=PK
2y/4=P/4-PK
y=p/2-2pk

cos((P/2-8y/2)/2)=0
(P/2-8y/2)/2=P/2+PK
8y/4=P/4-P/2-PK
y=P/8-P/4-PK/2
y=-P/8-PK/2
Ответ:p/2-2pk; -P/8-PK/2; 2pk

---

sina + cosb
sin(P/2-a)=cosa=sinP/2*cosa-cosP/2*sina=1*cosa-0
cos(p/2-b)=sinb=cosp/2*cosb+sinb*sinp/2=0+1*sinb
