cosx*cos2x*cos4x*cos8x=⅛*cos15x
если у нас полномочия умножить обе части sinx

8sinx*cosx*cos2x*cos4x*cos8x=cos15x*sinx
4sin2x*cos2x*cos4x*cos8x=cos15x*sinx
2*sin4x*cos4x*cos8x=cos15x*sinx
sin8x*cos8x=cos15x*sinx
sin16x=2*cos15x*sinx
sin16x=sin16x+sin(-14x)
0=sin(-14x)
-sin14x=0
sin14x=0
x=Pk/14

пусть sinx=0 тогда cosx=+-1
cos2x=2*cos^2 x -1=1
cos4x=2*cos^2 2x -1=1
cos8x=1
cos15x=cos(16x-x)=cos16x*cosx+sin16x*sinx=1*(+-1)+0*sin16x==+
-1
podstavim
+-1=+-⅛ - neverno

Ответ: x=Pk/14

siny + cos3y=1-2sin^2y + sin2y
siny + cos3y=cos2y + sin2y
siny - sin2y =cos2y - cos3y
cos3y/2 * sin(-y/2) = - sin5y/2 * sin(-y/2)
sin(-y/2)*[cos3y/2 + sin5y/2]=0
sin(-y/2)=Pk
y=-2Pk

cos3y/2 + sin5y/2=0
cos(2y - y/2) + sin(2y + y/2)=0
cos2y*cos y/2 + sin y/2 * sin 2y+sin2y*cos y/2 + sin y/2 * cos 2y=0
cos2y*cos y/2 + sin y/2 * sin 2y+sin2y*cos y/2 + sin y/2 * cos 2y=0
cos y/2 (cos2y + sin2y) + sin y/2 (sin2y + cos 2y)=0
(sin2y + cos 2y){cos y/2 + sin y/2} =0

sin 2y + cos 2y =0
V2(sin2y*1/V2+cos2y*1/V2)=V2(sin2y*cosP/4 + cos2y*sinP/4)=
=V2sin(2y+P/4)=0
2y+P/4=Pk
y=Pk/2-P/8

cos y/2 + sin y/2=0
sina=0 тогда cosa=0 - невозможно
делим
tg y/2=-1
y/2=-P/4+Pk
y=-P/2+2Pk