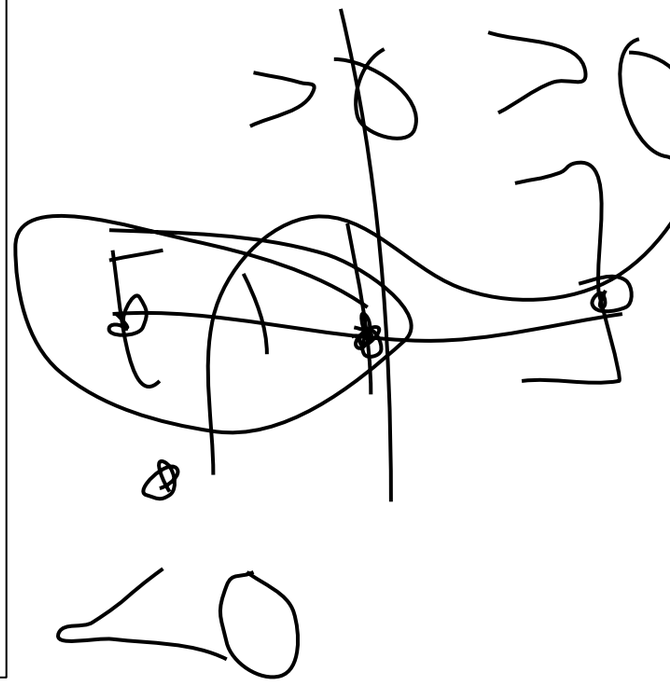
sin2x*sin6x*cos4x+(¼)*cos12x=0
2sinx*cosx*2*sin3x*cos3x*cos4x+¼*cos12x=0

sin2x*sin6x*cos4x+(¼)*cos(4+8)x=0
(-½)[cos(8x)-cos(4x)]*cos4x+¼*cos(4x+8x)=0
(-½)[cos(8x)-cos(4x)]*cos4x+¼
(cos4x*cos8x-sin8x*sin4x)=0
2cos4x*cos4x-2cos8x*cos4x+cos4x*cos8x-sin8x*sin4x=0
cos4x(2cos4x-2cos8x+cos8x)-sin8x*sin4x=0
cos4x(2cos4x-cos8x)-sin8x*sin4x=0
cos4x(2cos4x-cos8x)-2sin4x*cos4x*sin4x=0
cos4x(2cos4x-cos8x-2sin4x*sin4x)=0
cos4x=0



4x=p/2+pk
x=p/4+pk/4
2cos4x-cos8x-2sin4x*sin4x=0
2sin^2 4x+cos8x-2cos4x=0
2sin^2 4x +cos^2 4x - sin^2 4x -2cos4x=0
sin^2 4x +cos^2 4 x- 2 cos4x=0
1 - 2cos4x=0
2cos4x=-1
cos4x=-½
4x=+-2p/3+2pk

Ответ: +-2p/12+1/2pk;
P/4+pk/4