sin5x*cos3x=sin6x*cos2x
½(sin(5x+3x)+sin(5x-3x))=½(sin(6x+2x)+sin(6x-2x))
½(sin(8x)+sin(2x))=½(sin(8x)+sin(4x))
sin(8x)+sin(2x)=sin(8x)+sin(4x)
sin2x=sin4x
sin2x=2sin2xcos2x
sin2x(1-2cos2x)=0
sin2x=0
2x=pk
x=pk/2
1-2cos2x=0
2cos2x=1
cos2x=½
2x=+-p/3+2pk
x=(+-p/3+2pk)/2