<table>
<tr><td>

2cos13x + 3cos3x+3cos5x-8cosx*cos^3 (4x)=0

2(cos13x-4cosx*cos^3 (4x)) +3(cos3x+cos5x)=0

<span style="color:blue">cos^3 x=(cos3x+3cosx)/4</span>

2(cos13x-cosx*(cos12x+3cos4x))+3(cos3x+cos5x)=0

<span style="color:blue">2*cos((q+h)/2)*cos((q-h)/2)</span>

2(cos13x-cosx*(cos12x+3cos4x))+6*cos(4x)*cosx=0

cos13x-cosx*(cos12x+3cos4x)+3cos4x*cosx=0

cosx(3cos4x-cos12x-3cos4x)+cos13x=0

cos13x-cosx*cos12x=0

<span style="color:blue">cosx*cosy=(cos(x+y)+cos(x-y))/2</span>

cos13x-(cos13x+cos11x)/2=0

2cos13x-cos13x-cos11x=0

cos13x-cos11x=0

<span style="color:blue">cosq-cosh=-2*sin((q+h)/2)*sin((q-h)/2)</span>

sin12x*sinx=0

sin12x=0

12x=Pn

x=Pn/12

sinx=0

x=Pn

Ответ:Pn/12

</td><td>

sin2x*sin6x*cos4x+(¼)*cos12x=0

<span style="color:blue">cos3x=4cos^3 x-3cosx</span>

sin2x*sin6x*cos4x+cos^3 4x - ¾*cos4x=0

cos4x(sin2x*sin6x+cos^2 4x - ¾)=0

cos4x=0

4x=P/2+Pn

x=P/8+Pn/4

sin2x*sin6x+cos^2 4x-¾=0

<span style="color:blue">cos^2 x=(cos2x+1)/2</span>

<span style="color:blue">sinx*siny=(cos(x-y)-cos(x+y))/2</span>

(cos4x-cos8x)/2+(cos8x+1)/2-¾=0  | *2

cos4x-cos8x+cos8x+1-3/2=0

cos4x=½

4x=P/3+2Pn

x=P/12+Pn/2

4x=5P/3+2Pn

x=5P/12+Pn/2


Ответ: P/8+Pn/4; P/12+Pn/2; 5P/12+Pn/2

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