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N IS AN ~~[illegible]~~

$5\cos(6x)+6=9$

$3\cos(6x)+6-9=0$

$\cancel{5\cos(6x)-3=0}$

$\cancel{\cos^{-1}(6.9)+6=\alpha}$

$\alpha=\cancel{\pi}$

$\cancel{\cos(6x)=\frac{\pi}{2}\times\frac{2\pi}{6}=\frac{6\pi}{4\pi}=\frac{3}{2}}$

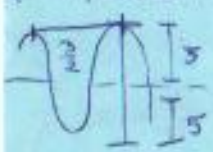
$\cos(\frac{3}{2})=0,0737\,2017$

$\cos^{-1}(\alpha)=2,5$

$\pi-\alpha=1,64159265$

$\alpha=85,9436693$

$\beta=94,0563307$



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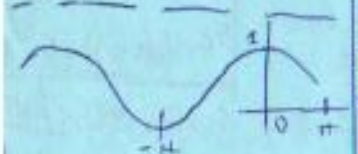
$(0,1)(\frac{\pi}{2},0)+(1,2)(\frac{3}{2},0)$

$\cancel{5\cos(6x)+6=(0,1)(\frac{3}{2},6)}$

$P=\frac{2\pi}{6}=\frac{\pi}{3}$ $\quad\frac{2\pi}{\frac{\pi}{3}}=\frac{6\pi}{\pi}=6$

$\cos(6x)=\frac{\pi}{2}\times\frac{3}{\pi}=\frac{3\pi}{2\pi}=\frac{3}{2}$

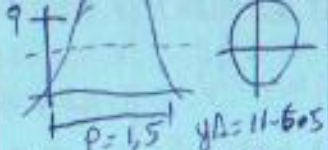


$\cos 7=1$ $\quad\cos\theta=-1$

$\frac{3/2}{5}=0,3$

$\cos(6x)=9$

$\cancel{\cos^{-1}(\frac{9}{6}x)=\cos^{-1}}$



$P=1,5$ $\quad y\Omega=11,605$ $\quad\alpha\Omega=\frac{3}{2}$

$-\frac{P}{4}=\frac{0,375}{x\Omega}=\frac{0,075}{2}$

$=0,0325$

$f(x)=5\alpha\times x+6$ $\quad x=0,4$

$f(x)=9$

$5\cos(6x)+6=9$

$5\cos(6x)=9-6=3$

$\cos(6x)=\frac{3}{5}=0.6$

$\cos^{-1}(0.6)=0,927295218$

$\pi-\alpha=2,214297444$

$\alpha=53,1301024°$

$\beta=126,869898°$

$\cos(\theta)=\cos(\theta+360)$

$6x=53,13+360$

$x=\frac{53,13+360}{6}=9,86+n.\frac{360}{6}$

$x=-53,13+n.36=-9,86+n.60$

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$30\cos(30x)+14=-16$

$30\cos(30x)=-16-14$

$\cos(30x)=\frac{-30}{30}=-1$

$\cos(30x)=-1$

$\cos(-1)=0,540302306$

$\pi-\alpha=2,60129835$

$\alpha=30,957041\,8°$

$\beta=149,042958°$

$x=\frac{30,96+n.2\pi}{30}$

$\cancel{x=1,031\,90139+n.\frac{\pi}{15}}$

$\cos^{-1}(-1)=\pi$

$\pi-\pi=0$

$x=\frac{\pi}{30}+n\frac{\pi}{15}$ ✓

$\cancel{x=n.\frac{\pi}{30}}$ $\quad x=n.\frac{\pi}{15}$

π not solve

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$2\sin(4x)+6=5$

$\sin(4x)=-\frac{1}{2}$

$\sin^{-1}(-\frac{1}{2})=0,523598776$

$\pi-\alpha=2,617993388$

$\alpha=-30°$

$\beta=150°$

$\theta=210°$

$x=\frac{-30+n.360}{4}$

$x=7.5+90°$

$\cancel{x=\frac{150+n.360}{4}}$ ✓

$\cancel{x=37,5+n.90°}$

$\cancel{\alpha=210°+n.360}$

$\cancel{x=\frac{-210+n.360}{4}}$

$\cancel{x=-52,5+n.90}$

$x=\frac{-150°+n.360}{4}$

$\cancel{x=-37,5+n.360}$

$x=-37,5+90°.n$

232

$20\sin(10x)+10=5$

$\sin(10x)=\frac{-5}{20}=-\frac{1}{4}$

$\sin^{-1}(-\frac{1}{4})=-0,252680255$

$\pi-\alpha=-2,889\,1240$

$\alpha=-14,775122°$

$\beta=-165,522468°$

$x=\frac{-0,252680255+n.2\pi}{10}$

$x=-0,025+n.\frac{\pi}{5}$

$\cancel{x=\frac{-2,889\,1240+n.2\pi}{10}}$

$\cancel{x=-0,28889+n.\frac{\pi}{5}}$

$20\sin(10x)-10=5$

$\sin(10x)=\frac{5+10}{20}=\frac{15}{20}$

$\sin(10x)=\frac{3}{4}$

$\sin^{-1}(\frac{3}{4})=0,848062079$

$\pi-\alpha=2,293530\,57$

$\alpha=48,590\,3279°$

$\beta=131,409622°$

$x=\frac{0,848+n.\pi}{10}=\frac{0,085}{10}$

$x=0,085+n.\frac{\pi}{10}$

$x=0.085+n.\frac{\pi}{5}$

$x=\frac{2.29+n.2\pi}{10}$

$x=0,229+n.\frac{\pi}{5}$ ✓

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$8\cos(12x)+4=-4$

$8\cos(12x)=-4-4$

$\cos(12x)=\frac{-8}{8}$

$\cos(12x)=-1$

$\cos(x)=1$

$\cos^{-1}(-1)=\pi$

$\pi-\alpha=0$

$\alpha=180°$

$180°+n.360=\alpha=x$

$x=\frac{180+n.360}{12}$

$x=15°+n.30°$ ✓

234

$4\cos(10x)+2=2$

$\cos(10x)=\frac{2-2}{4}=\frac{0}{4}$

$\cos(10x)=0$

$\cos(x)=0$

$\cos^{-1}(0)=\frac{\pi}{2}$

$\pi-\frac{\pi}{2}=\frac{\pi}{2}$

$\alpha=90°$

$\cancel{\beta=90°}$

$\alpha=-90$

$x=\frac{90+n.360}{10}$

$x=9+n.36$

$x=-9+n.36$ ✓

235

$7\cos(9x)-1=1$

$\cos(9x)=\frac{1+1}{7}$

$\cos(x)=\frac{2}{7}$

$\cos^{-1}(\frac{2}{7})=2,23104463$

$\pi-\alpha=1,8605$

$\alpha=106,60150$

$\beta=73,398450$

$\cancel{x=\frac{106,602+n.360}{9}}$

$\cancel{x=\frac{81,33933+n.40}{9}}$

$\cancel{x=\frac{73,398450+n.360}{9}}$

$\cancel{x=\frac{44,3446466+n.40}{9}}$

$x=\frac{\alpha+n.360}{9}$ ✓

$x=\pm 8,1538388+n.40$

236

$8\sin(3x)+9=3$

$\sin(3x)=\frac{3-9}{8}$

$\sin(3x)=\frac{-5}{8}$

$\sin^{-1}(-\frac{5}{8})=-0,675131533$

$\pi+(-\alpha)=2,466461212$

$\alpha=-38,6821875°$

$\beta=141,317813$

$\pi-\alpha=3,816724\,19$

$\theta=218,682187°$

$x=\frac{-38,6821875+n.360}{8}$

$x=-4,835273\,43+n.45°$

$x=\frac{218,682187+n.360}{8}$

$\cancel{x=27,335\,2734+n.45°}$

$\sin(3x)=\frac{3-9}{8}=\frac{-6}{8}$

$\sin(3x)=-\frac{6}{8}$

$\sin^{-1}(-\frac{6}{8})=-0,848062079$

$\pi-\alpha=3,989154\,73$

$\alpha=290,90378$

$\beta=-48,590\,3779$

$x=\frac{228,590\,3779+n.360}{8}$

$\cancel{x=28,573\,7972+n.45}$

$x=\frac{-48,590\,3779+n.360}{8}$

$\cancel{x=-6,07\,37\,972\,44+n.45}$

$\frac{-180+48,59}{8}=\frac{-131,409622+n.360}{8}$

$x=16,2462028+n.360$

237

$13\sin(2x)-3=3$

$\sin(2x)=\frac{3+3}{13}=\frac{6}{13}$

$\sin^{-1}(\frac{6}{13})=0,442912\,8658$

$\pi-\alpha=2,669786402$

$\alpha=27,486\,4263$

$\beta=152,573574$

$x=\frac{27,486\,4263+n.360}{2}$

$x=152,573574+n.360$

$\cancel{x_1=\frac{[illegible]+n.}{2}}$

$\cancel{x_2=\frac{[illegible]+n.}{2}}$

$x_1=13,743\,2131+n.180$

$x_2=96,2567869+n.180$

$x=\frac{0,4297+n.2\pi}{2}$

$x=0,239\,8643\,19+n.\pi$

$x=\frac{2,66186+n.2\pi}{2}$ ✓

$x=1,330\,932\,01+n.\pi$

238

$6\sin(3x)+1=7$

$\sin(3x)=\frac{7-1}{6}=\frac{6}{6}=1$

$\sin^{-1}(1)=1,570796\,33$

$\pi-\alpha=\frac{\pi}{2}$

$\alpha=90°$

$\beta=90°$

$x=\frac{90+n.360}{3}$ ✓

$x=30+n.120$

239

$7\cos(5x)+9=12$

$\cos(5x)=\frac{12-9}{7}=\frac{3}{7}$

$\cos^{-1}(\frac{3}{7})=1,128\,8528$

$\pi-\alpha=2,013\,70737$

$\alpha=64,623665$

$\beta=115,376934$

$x=\frac{64,623665+n.360}{5}$

$x=12,924\,6133+n.72$ ✓

240

$16\cos(15x)+8=2$

$\cos(15x)=\frac{-8+2}{16}=\frac{-6}{16}$