Projeto Mathematical Ramblings

bit.ly/mathematicalramblings

Livro de equações de sin (nx) e cos (nx) segundo as funções antoniovandre_sin_formula_nx e antoniovandre_cos_formula_nx.

Última atualização: 29-12-2018.

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\sin(1x) = \sin x
  \cos(1x) = \cos x
  \sin(2x)=2\cos x\sin x
  \cos(2x) = \cos^2 x - \sin^2 x
  \sin(3x) = 3\cos^2 x \sin x - \sin^3 x
  \cos(3x) = \cos^3 x - 3\cos x \sin^2 x
 \sin(4x) = 4\cos^3 x \sin x - 4\cos x \sin^3 x

\cos(4x) = \sin^4 x - 6\cos^2 x \sin^2 x + \cos^4 x
  \sin(5x) = \sin^5 x - 10 \cos^2 x \sin^3 x + 5 \cos^4 x \sin x
 \cos(5x) = 5\cos x \sin^4 x - 10\cos^3 x \sin^2 x + \cos^5 x \\ \sin(6x) = 6\cos x \sin^5 x - 20\cos^3 x \sin^3 x + 6\cos^5 x \sin x
  \cos(6x) = -\sin^6 x + 15\cos^2 x \sin^4 x - 15\cos^4 x \sin^2 x + \cos^6 x
  \sin(7x) = -\sin^7 x + 21\cos^2 x \sin^5 x - 35\cos^4 x \sin^3 x + 7\cos^6 x \sin x
  \cos(7x) = -7\cos x \sin^6 x + 35\cos^3 x \sin^4 x - 21\cos^5 x \sin^2 x + \cos^7 x
  \sin(8x) = -8\cos x \sin^7 x + 56\cos^3 x \sin^5 x - 56\cos^5 x \sin^3 x + 8\cos^7 x \sin x
  \cos(8x) = \sin^8 x - 28 \cos^2 x \sin^6 x + 70 \cos^4 x \sin^4 x - 28 \cos^6 x \sin^2 x + \cos^8 x
  \sin(9x) = \sin^9 x - 36 \cos^2 x \sin^7 x + 126 \cos^4 x \sin^5 x - 84 \cos^6 x \sin^3 x + 9 \cos^8 x \sin x
\cos(3x) = 3\cos x \sin^8 x - 84\cos^3 x \sin^6 x + 126\cos^5 x \sin^4 x - 36\cos^7 x \sin^2 x + \cos^9 x
\sin(10x) = 10\cos x \sin^9 x - 120\cos^3 x \sin^7 x + 252\cos^5 x \sin^5 x - 120\cos^7 x \sin^3 x + 10\cos^9 x \sin x
\cos(10x) = -\sin^{10} x + 45\cos^2 x \sin^8 x - 210\cos^4 x \sin^6 x + 210\cos^6 x \sin^4 x - 45\cos^8 x \sin^2 x + \cos^{10} x
\sin(11x) = -\sin^{11} x + 55\cos^2 x \sin^9 x - 330\cos^4 x \sin^7 x + 462\cos^6 x \sin^5 x - 165\cos^8 x \sin^3 x + 11\cos^{10} x \sin x
  \cos(11x) = -11 \cos x \sin^{10} x + 165 \cos^3 x \sin^8 x - 462 \cos^5 x \sin^6 x + 330 \cos^7 x \sin^4 x - 55 \cos^9 x \sin^2 x + \cos^{11} x \sin(12x) = -12 \cos x \sin^{11} x + 220 \cos^3 x \sin^9 x - 792 \cos^5 x \sin^7 x + 792 \cos^7 x \sin^5 x - 220 \cos^9 x \sin^3 x + 12 \cos^{11} x \sin x
  \cos(12x) = \sin^{12}x - 66\cos^{2}x\sin^{10}x + 495\cos^{4}x\sin^{8}x - 924\cos^{6}x\sin^{6}x + 495\cos^{8}x\sin^{4}x - 66\cos^{10}x\sin^{2}x + \cos^{12}x\cos^{10}x\sin^{10}x + 66\cos^{10}x\sin^{10}x + 66\cos^{10}x\sin^
\cos(12x) = \sin^{1-x}x - 00 \cos^{2}x \sin^{1-x}x + 495 \cos^{2}x \sin^{1}x - 924 \cos^{2}x \sin^{1}x + 495 \cos^{2}x \sin^{1}x - 60 \cos^{1}x \sin^{1}x - 60 \cos^{1}x \sin^{1}x + 715 \cos^{1}x \sin^{1}x - 715 \cos^{1}x \sin^{1}x - 715 \cos^{1}x \sin^{1}x - 715 \cos^{1}x \sin^{1}x - 715 \cos^{1}x \sin^{1}x + 715 \cos
 \sin(15x) = -\sin^{15}x + 105\cos^2x\sin^{13}x - 1365\cos^4x\sin^{11}x + 5005\cos^6x\sin^9x - 6435\cos^8x\sin^7x + 3003\cos^{10}x\sin^5x - 455\cos^{12}x\sin^3x + 15\cos^{14}x\sin^2x + \cos(15x) = -15\cos^2x\sin^{14}x + 455\cos^3x\sin^{12}x - 3003\cos^5x\sin^{10}x + 6435\cos^7x\sin^8x - 5005\cos^9x\sin^6x + 1365\cos^{11}x\sin^4x - 105\cos^{13}x\sin^2x + \cos^{15}x\cos^2x\sin^2x + \cos^2x\sin^2x + \cos^2x
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