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# Differential Calculus By Abu Yusuf Cprvdl

**calculus cheat sheet integrals - lamar university** - calculus cheat sheet visit <http://tutorialthmar> for a complete set of calculus notes. © 2005 paul dawkins standard integration techniques note that at many ...

**differential calculus of several variables - reed college** - abstract. these are notes for a one semester course in the differential calculus of several variables. the first two chapters are a quick introduction to the derivative as the best affine

**introduction to tensor calculus and continuum mechanics** - introduction to tensor calculus and continuum mechanics by j.h. heinbockel department of mathematics and statistics old dominion university

**a p calculus ab 2014 free-response questions** - 2014 ap<sup>®</sup> calculus ab free-response questions © 2014 the college board. visit the college board on the web: collegeboard. go on to the next page.

**elementary differential equations - trinity university** - preface elementary differential equations with boundary value problems is written for students in science, en-gineering, and mathematics who have completed calculus through partial differentiation.

**study guide for the advanced placement calculus ab examination** - 2 introduction advanced placement 1 is a program of college-level courses and examinations that gives high school students the opportunity to receive advanced placement and/or credit in college. the advanced placement calculus ab exam tests students on introductory differential and integral

**prerequisites for selected majors - uc education abroad ...** - prerequisites for selected majors applicants to these fields must be an enrolled major in the same field at their home university. see specific host uc campus information and requirements.

**calculus of variations - math: startseite** - chapter 1 introduction a huge amount of problems in the calculus of variations have their origin in physics where one has to minimize the energy associated to the problem

**michael spivak - strange beautiful** - michael spivak brandeis university calculus on manifolds a modern approach to classical theorems of advanced calculus addison-wesley publishing company

**international macroeconomics - columbia university** - international macroeconomics schmitt-groh e1 uribe2 woodford3 last updated: may 4, 2016 1columbia university.e-mail: stephaniehmittgrohe@columbia. 2columbia university.e-mail: martin.uribe@columbia. **recommended**

**recommended unified syllabus of unified ...** - ( iii ) unit unit 2222. . . differential equations of the first order but not of the first degree, clairaut's equations and singular solutions, orthogonal trajectories, simultaneous linear differential

**university ap policy - cmu** - updated 6/1/2018 page 1 of 2 university ap policy advanced placement (ap) course credit assignments ap exam score carnegie mellon course award/equivalency

**peterson's master ap calculus ab&bc** - peterson's master ap calculus ab&bc 2nd edition w. michael kelley mark wilding, contributing author

**partial differential equations & waves** - ...but why partial differential equations a physical system is characterised by its state at any point in space and time  $u(x, y, z, t)$ , temperature in here, now  $t$   $u$   $\partial \partial$  state varies over time:  $x$   $y$   $u$   $\partial \partial$  state also varies over space: things like

**partial differential equations** - » **department of mathematics** - partial differential equations victor ivrii department of mathematics, university of toronto c by victor ivrii, 2017, toronto, ontario, canada

**differential equations nonlinear systems of ordinary ...** - massoud malek nonlinear systems of ordinary differential equations page 3 nullclines - fixed points - velocity vectors example 1. example 2. in order to find the direction of the velocity vectors along the nullclines, we pick a point **b. part i semester i and ii**

**mathematics syllabus** - mathematics b. part -i (semester -i) paper - i (complex numbers and algebra) unit - 1: elementary functions of complex variables 10 lectures **pdf - integral table** - integrals with trigonometric functions  $\int \sin ax dx = -\frac{1}{a} \cos ax$  (63)  $\int \sin^2 ax dx = \frac{x}{2} - \frac{\sin 2ax}{4a}$  (64)  $\int \sin^3 ax dx = -\frac{1}{3a} \cos^3 ax + \frac{2}{3a} \cos ax$  (65)  $\int \sin^4 ax dx = \frac{3x}{8} - \frac{\cos 2ax}{4a} + \frac{\cos 4ax}{32a}$  (66)  $\int \cos ax dx = \frac{1}{a} \sin ax$  (67)  $\int \cos^2 ax dx = \frac{x}{2} + \frac{\sin 2ax}{4a}$  (68)  $\int \cos^3 ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a}$  (69)  $\int \cos^4 ax dx = \frac{3x}{8} + \frac{\sin 2ax}{4a} - \frac{\sin^4 ax}{32a}$  (70)  $\int \cos^5 ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a}$  (71)  $\int \cos^6 ax dx = \frac{5x}{8} + \frac{3 \sin 2ax}{16a} - \frac{\sin^4 ax}{16a}$  (72)  $\int \cos^7 ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a}$  (73)  $\int \cos^8 ax dx = \frac{7x}{8} + \frac{7 \sin 2ax}{16a} - \frac{7 \sin^4 ax}{64a} + \frac{\sin^6 ax}{64a}$  (74)  $\int \cos^9 ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a}$  (75)  $\int \cos^{10} ax dx = \frac{9x}{8} + \frac{9 \sin 2ax}{16a} - \frac{9 \sin^4 ax}{64a} + \frac{9 \sin^6 ax}{64a} - \frac{\sin^8 ax}{64a}$  (76)  $\int \cos^{11} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a}$  (77)  $\int \cos^{12} ax dx = \frac{11x}{8} + \frac{11 \sin 2ax}{16a} - \frac{11 \sin^4 ax}{64a} + \frac{11 \sin^6 ax}{64a} - \frac{11 \sin^8 ax}{64a} + \frac{\sin^{10} ax}{64a}$  (78)  $\int \cos^{13} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a}$  (79)  $\int \cos^{14} ax dx = \frac{13x}{8} + \frac{13 \sin 2ax}{16a} - \frac{13 \sin^4 ax}{64a} + \frac{13 \sin^6 ax}{64a} - \frac{13 \sin^8 ax}{64a} + \frac{13 \sin^{10} ax}{64a} - \frac{\sin^{12} ax}{64a}$  (80)  $\int \cos^{15} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a}$  (81)  $\int \cos^{16} ax dx = \frac{15x}{8} + \frac{15 \sin 2ax}{16a} - \frac{15 \sin^4 ax}{64a} + \frac{15 \sin^6 ax}{64a} - \frac{15 \sin^8 ax}{64a} + \frac{15 \sin^{10} ax}{64a} - \frac{15 \sin^{12} ax}{64a} + \frac{\sin^{14} ax}{64a}$  (82)  $\int \cos^{17} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a}$  (83)  $\int \cos^{18} ax dx = \frac{17x}{8} + \frac{17 \sin 2ax}{16a} - \frac{17 \sin^4 ax}{64a} + \frac{17 \sin^6 ax}{64a} - \frac{17 \sin^8 ax}{64a} + \frac{17 \sin^{10} ax}{64a} - \frac{17 \sin^{12} ax}{64a} + \frac{17 \sin^{14} ax}{64a} - \frac{\sin^{16} ax}{64a}$  (84)  $\int \cos^{19} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a} - \frac{\sin^{19} ax}{19a}$  (85)  $\int \cos^{20} ax dx = \frac{19x}{8} + \frac{19 \sin 2ax}{16a} - \frac{19 \sin^4 ax}{64a} + \frac{19 \sin^6 ax}{64a} - \frac{19 \sin^8 ax}{64a} + \frac{19 \sin^{10} ax}{64a} - \frac{19 \sin^{12} ax}{64a} + \frac{19 \sin^{14} ax}{64a} - \frac{19 \sin^{16} ax}{64a} + \frac{\sin^{18} ax}{64a}$  (86)  $\int \cos^{21} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a} - \frac{\sin^{19} ax}{19a} + \frac{\sin^{21} ax}{21a}$  (87)  $\int \cos^{22} ax dx = \frac{21x}{8} + \frac{21 \sin 2ax}{16a} - \frac{21 \sin^4 ax}{64a} + \frac{21 \sin^6 ax}{64a} - \frac{21 \sin^8 ax}{64a} + \frac{21 \sin^{10} ax}{64a} - \frac{21 \sin^{12} ax}{64a} + \frac{21 \sin^{14} ax}{64a} - \frac{21 \sin^{16} ax}{64a} + \frac{21 \sin^{18} ax}{64a} - \frac{\sin^{20} ax}{64a}$  (88)  $\int \cos^{23} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a} - \frac{\sin^{19} ax}{19a} + \frac{\sin^{21} ax}{21a} - \frac{\sin^{23} ax}{23a}$  (89)  $\int \cos^{24} ax dx = \frac{23x}{8} + \frac{23 \sin 2ax}{16a} - \frac{23 \sin^4 ax}{64a} + \frac{23 \sin^6 ax}{64a} - \frac{23 \sin^8 ax}{64a} + \frac{23 \sin^{10} ax}{64a} - \frac{23 \sin^{12} ax}{64a} + \frac{23 \sin^{14} ax}{64a} - \frac{23 \sin^{16} ax}{64a} + \frac{23 \sin^{18} ax}{64a} - \frac{23 \sin^{20} ax}{64a} + \frac{\sin^{22} ax}{64a}$  (90)  $\int \cos^{25} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a} - \frac{\sin^{19} ax}{19a} + \frac{\sin^{21} ax}{21a} - \frac{\sin^{23} ax}{23a} + \frac{\sin^{25} ax}{25a}$  (91)  $\int \cos^{26} ax dx = \frac{25x}{8} + \frac{25 \sin 2ax}{16a} - \frac{25 \sin^4 ax}{64a} + \frac{25 \sin^6 ax}{64a} - \frac{25 \sin^8 ax}{64a} + \frac{25 \sin^{10} ax}{64a} - \frac{25 \sin^{12} ax}{64a} + \frac{25 \sin^{14} ax}{64a} - \frac{25 \sin^{16} ax}{64a} + \frac{25 \sin^{18} ax}{64a} - \frac{25 \sin^{20} ax}{64a} + \frac{25 \sin^{22} ax}{64a} - \frac{\sin^{24} ax}{64a}$  (92)  $\int \cos^{27} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a} - \frac{\sin^{19} ax}{19a} + \frac{\sin^{21} ax}{21a} - \frac{\sin^{23} ax}{23a} + \frac{\sin^{25} ax}{25a} - \frac{\sin^{27} ax}{27a}$  (93)  $\int \cos^{28} ax dx = \frac{27x}{8} + \frac{27 \sin 2ax}{16a} - \frac{27 \sin^4 ax}{64a} + \frac{27 \sin^6 ax}{64a} - \frac{27 \sin^8 ax}{64a} + \frac{27 \sin^{10} ax}{64a} - \frac{27 \sin^{12} ax}{64a} + \frac{27 \sin^{14} ax}{64a} - \frac{27 \sin^{16} ax}{64a} + \frac{27 \sin^{18} ax}{64a} - \frac{27 \sin^{20} ax}{64a} + \frac{27 \sin^{22} ax}{64a} - \frac{27 \sin^{24} ax}{64a} + \frac{\sin^{26} ax}{64a}$  (94)  $\int \cos^{29} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a} - \frac{\sin^{19} ax}{19a} + \frac{\sin^{21} ax}{21a} - \frac{\sin^{23} ax}{23a} + \frac{\sin^{25} ax}{25a} - \frac{\sin^{27} ax}{27a} + \frac{\sin^{29} ax}{29a}$  (95)  $\int \cos^{30} ax dx = \frac{29x}{8} + \frac{29 \sin 2ax}{16a} - \frac{29 \sin^4 ax}{64a} + \frac{29 \sin^6 ax}{64a} - \frac{29 \sin^8 ax}{64a} + \frac{29 \sin^{10} ax}{64a} - 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\frac{37 \sin^{20} ax}{64a} + \frac{37 \sin^{22} ax}{64a} - \frac{37 \sin^{24} ax}{64a} + \frac{37 \sin^{26} ax}{64a} - \frac{37 \sin^{28} ax}{64a} + \frac{37 \sin^{30} ax}{64a} - \frac{37 \sin^{32} ax}{64a} + \frac{37 \sin^{34} ax}{64a} - \frac{\sin^{36} ax}{64a}$  (104)  $\int \cos^{39} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a} - \frac{\sin^{19} ax}{19a} + \frac{\sin^{21} ax}{21a} - \frac{\sin^{23} ax}{23a} + \frac{\sin^{25} ax}{25a} - \frac{\sin^{27} ax}{27a} + \frac{\sin^{29} ax}{29a} - \frac{\sin^{31} ax}{31a} + \frac{\sin^{33} ax}{33a} - \frac{\sin^{35} ax}{35a} + \frac{\sin^{37} ax}{37a} - \frac{\sin^{39} ax}{39a}$  (105)  $\int \cos^{40} ax dx = \frac{39x}{8} + \frac{39 \sin 2ax}{16a} - \frac{39 \sin^4 ax}{64a} + \frac{39 \sin^6 ax}{64a} - \frac{39 \sin^8 ax}{64a} + \frac{39 \sin^{10} ax}{64a} - \frac{39 \sin^{12} ax}{64a} + \frac{39 \sin^{14} ax}{64a} - \frac{39 \sin^{16} ax}{64a} + \frac{39 \sin^{18} ax}{64a} - \frac{39 \sin^{20} ax}{64a} + \frac{39 \sin^{22} ax}{64a} - \frac{39 \sin^{24} ax}{64a} + \frac{39 \sin^{26} ax}{64a} - \frac{39 \sin^{28} ax}{64a} + \frac{39 \sin^{30} ax}{64a} - \frac{39 \sin^{32} ax}{64a} + \frac{39 \sin^{34} ax}{64a} - \frac{39 \sin^{36} ax}{64a} + \frac{\sin^{38} ax}{64a}$  (106)  $\int \cos^{41} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a} - \frac{\sin^{19} ax}{19a} + \frac{\sin^{21} ax}{21a} - \frac{\sin^{23} ax}{23a} + \frac{\sin^{25} ax}{25a} - \frac{\sin^{27} ax}{27a} + \frac{\sin^{29} ax}{29a} - \frac{\sin^{31} ax}{31a} + \frac{\sin^{33} ax}{33a} - \frac{\sin^{35} ax}{35a} + \frac{\sin^{37} ax}{37a} - \frac{\sin^{39} ax}{39a} + \frac{\sin^{41} ax}{41a}$  (107)  $\int \cos^{42} ax dx = \frac{41x}{8} + \frac{41 \sin 2ax}{16a} - \frac{41 \sin^4 ax}{64a} + \frac{41 \sin^6 ax}{64a} - \frac{41 \sin^8 ax}{64a} + \frac{41 \sin^{10} ax}{64a} - \frac{41 \sin^{12} ax}{64a} + \frac{41 \sin^{14} ax}{64a} - \frac{41 \sin^{16} ax}{64a} + \frac{41 \sin^{18} ax}{64a} - \frac{41 \sin^{20} ax}{64a} + \frac{41 \sin^{22} ax}{64a} - \frac{41 \sin^{24} ax}{64a} + \frac{41 \sin^{26} ax}{64a} - \frac{41 \sin^{28} ax}{64a} + \frac{41 \sin^{30} ax}{64a} - \frac{41 \sin^{32} ax}{64a} + \frac{41 \sin^{34} ax}{64a} - \frac{41 \sin^{36} ax}{64a} + \frac{41 \sin^{38} ax}{64a} - \frac{\sin^{40} ax}{64a}$  (108)  $\int \cos^{43} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a} - \frac{\sin^{19} ax}{19a} + \frac{\sin^{21} ax}{21a} - \frac{\sin^{23} ax}{23a} + \frac{\sin^{25} ax}{25a} - \frac{\sin^{27} ax}{27a} + \frac{\sin^{29} ax}{29a} - \frac{\sin^{31} ax}{31a} + \frac{\sin^{33} ax}{33a} - \frac{\sin^{35} ax}{35a} + \frac{\sin^{37} ax}{37a} - \frac{\sin^{39} ax}{39a} + \frac{\sin^{41} ax}{41a} - \frac{\sin^{43} ax}{43a}$  (109)  $\int \cos^{44} ax dx = \frac{43x}{8} + \frac{43 \sin 2ax}{16a} - \frac{43 \sin^4 ax}{64a} + \frac{43 \sin^6 ax}{64a} - \frac{43 \sin^8 ax}{64a} + \frac{43 \sin^{10} ax}{64a} - \frac{43 \sin^{12} ax}{64a} + \frac{43 \sin^{14} ax}{64a} - \frac{43 \sin^{16} ax}{64a} + \frac{43 \sin^{18} ax}{64a} - \frac{43 \sin^{20} ax}{64a} + \frac{43 \sin^{22} ax}{64a} - \frac{43 \sin^{24} ax}{64a} + \frac{43 \sin^{26} ax}{64a} - \frac{43 \sin^{28} ax}{64a} + \frac{43 \sin^{30} ax}{64a} - \frac{43 \sin^{32} ax}{64a} + \frac{43 \sin^{34} ax}{64a} - \frac{43 \sin^{36} ax}{64a} + \frac{43 \sin^{38} ax}{64a} - \frac{43 \sin^{40} ax}{64a} + \frac{\sin^{42} ax}{64a}$  (110)  $\int \cos^{45} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a} - \frac{\sin^{19} ax}{19a} + \frac{\sin^{21} ax}{21a} - \frac{\sin^{23} ax}{23a} + \frac{\sin^{25} ax}{25a} - \frac{\sin^{27} ax}{27a} + \frac{\sin^{29} ax}{29a} - \frac{\sin^{31} ax}{31a} + \frac{\sin^{33} ax}{33a} - \frac{\sin^{35} ax}{35a} + \frac{\sin^{37} ax}{37a} - \frac{\sin^{39} ax}{39a} + \frac{\sin^{41} ax}{41a} - \frac{\sin^{43} ax}{43a} + \frac{\sin^{45} ax}{45a}$  (111)  $\int \cos^{46} ax dx = \frac{45x}{8} + \frac{45 \sin 2ax}{16a} - \frac{45 \sin^4 ax}{64a} + \frac{45 \sin^6 ax}{64a} - \frac{45 \sin^8 ax}{64a} + \frac{45 \sin^{10} ax}{64a} - \frac{45 \sin^{12} ax}{64a} + \frac{45 \sin^{14} ax}{64a} - \frac{45 \sin^{16} ax}{64a} + \frac{45 \sin^{18} ax}{64a} - \frac{45 \sin^{20} ax}{64a} + \frac{45 \sin^{22} ax}{64a} - \frac{45 \sin^{24} ax}{64a} + \frac{45 \sin^{26} ax}{64a} - \frac{45 \sin^{28} ax}{64a} + \frac{45 \sin^{30} ax}{64a} - \frac{45 \sin^{32} ax}{64a} + \frac{45 \sin^{34} ax}{64a} - \frac{45 \sin^{36} ax}{64a} + \frac{45 \sin^{38} ax}{64a} - \frac{45 \sin^{40} ax}{64a} + \frac{45 \sin^{42} ax}{64a} - \frac{\sin^{44} ax}{64a}$  (112)  $\int \cos^{47} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a} - \frac{\sin^{19} ax}{19a} + \frac{\sin^{21} ax}{21a} - \frac{\sin^{23} ax}{23a} + \frac{\sin^{25} ax}{25a} - \frac{\sin^{27} ax}{27a} + \frac{\sin^{29} ax}{29a} - \frac{\sin^{31} ax}{31a} + \frac{\sin^{33} ax}{33a} - \frac{\sin^{35} ax}{35a} + \frac{\sin^{37} ax}{37a} - \frac{\sin^{39} ax}{39a} + \frac{\sin^{41} ax}{41a} - \frac{\sin^{43} ax}{43a} + \frac{\sin^{45} ax}{45a} - \frac{\sin^{47} ax}{47a}$  (113)  $\int \cos^{48} ax dx = \frac{47x}{8} + \frac{47 \sin 2ax}{16a} - \frac{47 \sin^4 ax}{64a} + \frac{47 \sin^6 ax}{64a} - \frac{47 \sin^8 ax}{64a} + \frac{47 \sin^{10} ax}{64a} - \frac{47 \sin^{12} ax}{64a} + \frac{47 \sin^{14} ax}{64a} - \frac{47 \sin^{16} ax}{64a} + \frac{47 \sin^{18} ax}{64a} - \frac{47 \sin^{20} ax}{64a} + \frac{47 \sin^{22} ax}{64a} - \frac{47 \sin^{24} ax}{64a} + \frac{47 \sin^{26} ax}{64a} - \frac{47 \sin^{28} ax}{64a} + \frac{47 \sin^{30} ax}{64a} - \frac{47 \sin^{32} ax}{64a} + \frac{47 \sin^{34} ax}{64a} - \frac{47 \sin^{36} ax}{64a} + \frac{47 \sin^{38} ax}{64a} - \frac{47 \sin^{40} ax}{64a} + \frac{47 \sin^{42} ax}{64a} - \frac{47 \sin^{44} ax}{64a} + \frac{\sin^{46} ax}{64a}$  (114)  $\int \cos^{49} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a} - \frac{\sin^{19} ax}{19a} + \frac{\sin^{21} ax}{21a} - \frac{\sin^{23} ax}{23a} + \frac{\sin^{25} ax}{25a} - \frac{\sin^{27} ax}{27a} + \frac{\sin^{29} ax}{29a} - \frac{\sin^{31} ax}{31a} + \frac{\sin^{33} ax}{33a} - \frac{\sin^{35} ax}{35a} + \frac{\sin^{37} ax}{37a} - \frac{\sin^{39} ax}{39a} + \frac{\sin^{41} ax}{41a} - \frac{\sin^{43} ax}{43a} + \frac{\sin^{45} ax}{45a} - \frac{\sin^{47} ax}{47a} + \frac{\sin^{49} ax}{49a}$  (115)  $\int \cos^{50} ax dx = \frac{49x}{8} + \frac{49 \sin 2ax}{16a} - \frac{49 \sin^4 ax}{64a} + \frac{49 \sin^6 ax}{64a} - \frac{49 \sin^8 ax}{64a} + \frac{49 \sin^{10} ax}{64a} - \frac{49 \sin^{12} ax}{64a} + \frac{49 \sin^{14} ax}{64a} - \frac{49 \sin^{16} ax}{64a} + \frac{49 \sin^{18} ax}{64a} - \frac{49 \sin^{20} ax}{64a} + \frac{49 \sin^{22} ax}{64a} - \frac{49 \sin^{24} ax}{64a} + \frac{49 \sin^{26} ax}{64a} - \frac{49 \sin^{28} ax}{64a} + \frac{49 \sin^{30} ax}{64a} - \frac{49 \sin^{32} ax}{64a} + \frac{49 \sin^{34} ax}{64a} - \frac{49 \sin^{36} ax}{64a} + \frac{49 \sin^{38} ax}{64a} - \frac{49 \sin^{40} ax}{64a} + \frac{49 \sin^{42} ax}{64a} - \frac{49 \sin^{44} ax}{64a} + \frac{49 \sin^{46} ax}{64a} - \frac{\sin^{48} ax}{64a}$  (116)  $\int \cos^{51} ax dx = \frac{\sin ax}{a} - \frac{\sin^3 ax}{3a} + \frac{\sin^5 ax}{5a} - \frac{\sin^7 ax}{7a} + \frac{\sin^9 ax}{9a} - \frac{\sin^{11} ax}{11a} + \frac{\sin^{13} ax}{13a} - \frac{\sin^{15} ax}{15a} + \frac{\sin^{17} ax}{17a} - \frac{\sin^{19} ax}{19a} + \frac{\sin^{21} ax}{21a} - \frac{\sin^{23} ax}{23a} + \frac{\sin^{25} ax}{25a} - \frac{\sin^{27} ax}{27a} + \frac{\sin^{29} ax}{29a} - \frac{\sin^{31} ax}{31a} + \frac{\sin^{33} ax}{33a} - \frac{\sin^{35} ax}{35a} + \frac{\sin^{37} ax}{37a} - \frac{\sin^{39} ax}{39a} + \frac{\sin^{41} ax}{41a} - \frac{\sin^{4$

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