
Differential And Integral Calculus By Love And Rainville Solution

calculus cheat sheet integrals - lamar university - calculus cheat sheet visit <http://tutorialthmar> for a complete set of calculus notes. © 2005 paul dawkins trig substitutions : if the integral contains the ...

differential pressure manifolds - m4a and m4t 3-valve ... - anderson greenwood manifolds catalog flow, static pressure, and liquid level manifolds © 1998, rev. 1999 anderson greenwood instrumentation products reserves the **neural ordinary differential equations - arxiv** - the vector-jacobian products $a(t)t@f@z$ and $a(t)t@f@in(4)5$ can be efficiently evaluated by automatic differentiation, at a time cost similar to that of evaluating f . all integrals for solving z , a **table of basic integrals1** - table of basic integrals1 (1) $\int x^n dx = \frac{1}{n+1} x^{n+1}$; $n \neq -1$ (2) $\int \frac{1}{x} dx = \ln|x|$ (3) $\int u dv = uv - \int v du$ (4) $\int e^{ax} dx = \frac{1}{a} e^{ax}$ (5) $\int \frac{1}{ax} dx = \frac{1}{a} \ln|ax|$ (6) $\int \ln x dx = x \ln x - x$ (7) $\int \sin x dx = -\cos x$ (8) $\int \cos x dx = \sin x$ (9) $\int \tan x dx = -\ln|\sec x|$ **'understanding data converters' - texas instruments** - important notice texas instruments and its subsidiaries (ti) reserve the right to make changes to their products or to discontinue any product or service without notice, and advise customers to obtain the latest version of relevant information **texts in differential applied equations and dynamical systems** - preface to the third edition this book covers those topics necessary for a clear understanding of the qualitative theory of ordinary differential equations and the ... **air flow switch installation instructions** - air flow switch installation instructions general the plated housing contains a diaphragm, a calibration spring and a snap-acting spst (nc) switch. **community project mathcentre community project** - mathcentre community project encouraging academics to share maths support resources all mcpp resources are released under a creative commons licence **system 350tm a350p electronic proportional plus integral ...** - s350p proportional stage modules receive power, setpoint, and sensor input from the a350p control. the s350p stage module responds with an analog 0 to **general model eja210a and eja220a specifications transmitters** - general specifications the high performance flange mounted differential pressure transmitter models eja210a and 220a can be used to measure levels of densities of solidifying or **general specifications - yokogawa** - general specifications model eja118w, eja118n and eja118y diaphragm sealed differential pressure transmitters yokogawa electric corporation **sm73201 16-bit, 50 to 250 ksp, differential input ...** - sm73201 ti snosb89b - june 2011- revised june 2013 these devices have limited built-in esd protection. the leads should be shorted together or the device placed in conductive foam **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) $\int \sin^n ax dx = -\frac{\cos ax}{n} + \frac{\sin ax \cos^{n-2} ax}{n-2}$ (65) $\int \sin^3 ax dx = -\frac{\cos ax}{3} + \frac{\cos^3 ax}{3a}$ (66) $\int \cos ax dx = \frac{\sin ax}{a}$ (67) $\int \cos^2 ax dx = \frac{x}{2} + \frac{\sin 2ax}{4a}$ (68) $\int \cos^n ax dx = \frac{\sin ax}{n} + \frac{\cos ax \sin^{n-2} ax}{n-2}$ (69) $\int \cos^3 ax dx = \frac{\sin ax}{3} + \frac{\sin^3 ax}{3a}$ (70) $\int \frac{1}{\sin ax} dx = -\frac{1}{a} \ln|\csc ax + \cot ax|$ (71) $\int \frac{1}{\cos ax} dx = \frac{1}{a} \ln|\sec ax + \tan ax|$ (72) $\int \frac{1}{\sin ax \cos ax} dx = \frac{1}{a} \ln|\tan ax|$ (73) $\int \frac{1}{\sin^2 ax} dx = -\frac{1}{a} \cot ax$ (74) $\int \frac{1}{\cos^2 ax} dx = \frac{1}{a} \tan ax$ (75) $\int \frac{1}{\sin^3 ax} dx = -\frac{\cos ax}{2a} + \frac{1}{2a} \ln|\csc ax + \cot ax|$ (76) $\int \frac{1}{\cos^3 ax} dx = \frac{\sin ax}{2a} + \frac{1}{2a} \ln|\sec ax + \tan ax|$ (77) $\int \frac{1}{\sin^4 ax} dx = -\frac{\cos ax}{3a} + \frac{2 \sin ax \cos ax}{3a} - \frac{1}{3a} \ln|\csc ax + \cot ax|$ (78) $\int \frac{1}{\cos^4 ax} dx = \frac{\sin ax}{3a} - \frac{2 \sin ax \cos ax}{3a} + \frac{1}{3a} \ln|\sec ax + \tan ax|$ (79) $\int \frac{1}{\sin^5 ax} dx = -\frac{\cos ax}{4a} + \frac{\sin ax \cos^3 ax}{3a} - \frac{1}{4a} \ln|\csc ax + \cot ax|$ (80) $\int \frac{1}{\cos^5 ax} dx = \frac{\sin ax}{4a} - \frac{\sin^3 ax \cos ax}{3a} + \frac{1}{4a} \ln|\sec ax + \tan ax|$ (81) $\int \frac{1}{\sin^6 ax} dx = -\frac{\cos ax}{5a} + \frac{3 \sin ax \cos^4 ax}{4a} - \frac{3 \sin^3 ax \cos^2 ax}{4a} + \frac{1}{5a} \ln|\csc ax + \cot ax|$ (82) $\int \frac{1}{\cos^6 ax} dx = \frac{\sin ax}{5a} - \frac{3 \sin^3 ax \cos^3 ax}{4a} + \frac{3 \sin^5 ax \cos ax}{4a} - \frac{1}{5a} \ln|\sec ax + \tan ax|$ (83) $\int \frac{1}{\sin^7 ax} dx = -\frac{\cos ax}{6a} + \frac{3 \sin ax \cos^5 ax}{5a} - \frac{3 \sin^3 ax \cos^3 ax}{5a} + \frac{1}{6a} \ln|\csc ax + \cot ax|$ (84) $\int \frac{1}{\cos^7 ax} dx = \frac{\sin ax}{6a} - \frac{3 \sin^3 ax \cos^4 ax}{5a} + \frac{3 \sin^5 ax \cos^2 ax}{5a} - \frac{1}{6a} \ln|\sec ax + \tan ax|$ (85) $\int \frac{1}{\sin^8 ax} dx = -\frac{\cos ax}{7a} + \frac{3 \sin ax \cos^6 ax}{4a} - \frac{3 \sin^3 ax \cos^4 ax}{4a} + \frac{1}{7a} \ln|\csc ax + \cot ax|$ (86) $\int \frac{1}{\cos^8 ax} dx = \frac{\sin ax}{7a} - \frac{3 \sin^3 ax \cos^5 ax}{4a} + \frac{3 \sin^5 ax \cos^3 ax}{4a} - \frac{1}{7a} \ln|\sec ax + \tan ax|$ (87) $\int \frac{1}{\sin^9 ax} dx = -\frac{\cos ax}{8a} + \frac{3 \sin ax \cos^7 ax}{7a} - \frac{3 \sin^3 ax \cos^5 ax}{7a} + \frac{1}{8a} \ln|\csc ax + \cot ax|$ (88) $\int \frac{1}{\cos^9 ax} dx = \frac{\sin ax}{8a} - \frac{3 \sin^3 ax \cos^6 ax}{7a} + \frac{3 \sin^5 ax \cos^4 ax}{7a} - \frac{1}{8a} \ln|\sec ax + \tan ax|$ (89) $\int \frac{1}{\sin^{10} ax} dx = -\frac{\cos ax}{9a} + \frac{3 \sin ax \cos^8 ax}{8a} - \frac{3 \sin^3 ax \cos^6 ax}{8a} + \frac{1}{9a} \ln|\csc ax + \cot ax|$ (90) $\int \frac{1}{\cos^{10} ax} dx = \frac{\sin ax}{9a} - \frac{3 \sin^3 ax \cos^7 ax}{8a} + \frac{3 \sin^5 ax \cos^5 ax}{8a} - \frac{1}{9a} \ln|\sec ax + \tan ax|$ (91) $\int \frac{1}{\sin^{11} ax} dx = -\frac{\cos ax}{10a} + \frac{3 \sin ax \cos^9 ax}{9a} - \frac{3 \sin^3 ax \cos^7 ax}{9a} + \frac{1}{10a} \ln|\csc ax + \cot ax|$ (92) $\int \frac{1}{\cos^{11} ax} dx = \frac{\sin ax}{10a} - \frac{3 \sin^3 ax \cos^8 ax}{9a} + \frac{3 \sin^5 ax \cos^6 ax}{9a} - \frac{1}{10a} \ln|\sec ax + \tan ax|$ (93) $\int \frac{1}{\sin^{12} ax} dx = -\frac{\cos ax}{11a} + \frac{3 \sin ax \cos^{10} ax}{10a} - \frac{3 \sin^3 ax \cos^8 ax}{10a} + \frac{1}{11a} \ln|\csc ax + \cot ax|$ (94) $\int \frac{1}{\cos^{12} ax} dx = \frac{\sin ax}{11a} - \frac{3 \sin^3 ax \cos^9 ax}{10a} + \frac{3 \sin^5 ax \cos^7 ax}{10a} - \frac{1}{11a} \ln|\sec ax + \tan ax|$ (95) $\int \frac{1}{\sin^{13} ax} dx = -\frac{\cos ax}{12a} + \frac{3 \sin ax \cos^{11} ax}{11a} - \frac{3 \sin^3 ax \cos^9 ax}{11a} + \frac{1}{12a} \ln|\csc ax + \cot ax|$ (96) $\int \frac{1}{\cos^{13} ax} dx = \frac{\sin ax}{12a} - \frac{3 \sin^3 ax \cos^{10} ax}{11a} + \frac{3 \sin^5 ax \cos^8 ax}{11a} - \frac{1}{12a} \ln|\sec ax + \tan ax|$ (97) $\int \frac{1}{\sin^{14} ax} dx = -\frac{\cos ax}{13a} + \frac{3 \sin ax \cos^{12} ax}{12a} - \frac{3 \sin^3 ax \cos^{10} ax}{12a} + \frac{1}{13a} \ln|\csc ax + \cot ax|$ (98) $\int \frac{1}{\cos^{14} ax} dx = \frac{\sin ax}{13a} - \frac{3 \sin^3 ax \cos^{11} ax}{12a} + \frac{3 \sin^5 ax \cos^9 ax}{12a} - \frac{1}{13a} \ln|\sec ax + \tan ax|$ (99) $\int \frac{1}{\sin^{15} ax} dx = -\frac{\cos ax}{14a} + \frac{3 \sin ax \cos^{13} ax}{13a} - \frac{3 \sin^3 ax \cos^{11} ax}{13a} + \frac{1}{14a} \ln|\csc ax + \cot ax|$ (100) $\int \frac{1}{\cos^{15} ax} dx = \frac{\sin ax}{14a} - \frac{3 \sin^3 ax \cos^{12} ax}{13a} + \frac{3 \sin^5 ax \cos^{10} ax}{13a} - \frac{1}{14a} \ln|\sec ax + \tan ax|$ (101) $\int \frac{1}{\sin^{16} ax} dx = -\frac{\cos ax}{15a} + \frac{3 \sin ax \cos^{14} ax}{14a} - \frac{3 \sin^3 ax \cos^{12} ax}{14a} + \frac{1}{15a} \ln|\csc ax + \cot ax|$ (102) $\int \frac{1}{\cos^{16} ax} dx = \frac{\sin ax}{15a} - \frac{3 \sin^3 ax \cos^{13} ax}{14a} + \frac{3 \sin^5 ax \cos^{11} ax}{14a} - \frac{1}{15a} \ln|\sec ax + \tan ax|$ (103) $\int \frac{1}{\sin^{17} ax} dx = -\frac{\cos ax}{16a} + \frac{3 \sin ax \cos^{15} ax}{15a} - \frac{3 \sin^3 ax \cos^{13} ax}{15a} + \frac{1}{16a} \ln|\csc ax + \cot ax|$ (104) $\int \frac{1}{\cos^{17} ax} dx = \frac{\sin ax}{16a} - \frac{3 \sin^3 ax \cos^{14} ax}{15a} + \frac{3 \sin^5 ax \cos^{12} ax}{15a} - \frac{1}{16a} \ln|\sec ax + \tan ax|$ (105) $\int \frac{1}{\sin^{18} ax} dx = -\frac{\cos ax}{17a} + \frac{3 \sin ax \cos^{16} ax}{16a} - \frac{3 \sin^3 ax \cos^{14} ax}{16a} + \frac{1}{17a} \ln|\csc ax + \cot ax|$ (106) $\int \frac{1}{\cos^{18} ax} dx = \frac{\sin ax}{17a} - \frac{3 \sin^3 ax \cos^{15} ax}{16a} + \frac{3 \sin^5 ax \cos^{13} ax}{16a} - \frac{1}{17a} \ln|\sec ax + \tan ax|$ (107) $\int \frac{1}{\sin^{19} ax} dx = -\frac{\cos ax}{18a} + \frac{3 \sin ax \cos^{17} ax}{17a} - \frac{3 \sin^3 ax \cos^{15} ax}{17a} + \frac{1}{18a} \ln|\csc ax + \cot ax|$ (108) $\int \frac{1}{\cos^{19} ax} dx = \frac{\sin ax}{18a} - \frac{3 \sin^3 ax \cos^{16} ax}{17a} + \frac{3 \sin^5 ax \cos^{14} ax}{17a} - \frac{1}{18a} \ln|\sec ax + \tan ax|$ (109) $\int \frac{1}{\sin^{20} ax} dx = -\frac{\cos ax}{19a} + \frac{3 \sin ax \cos^{18} ax}{18a} - \frac{3 \sin^3 ax \cos^{16} ax}{18a} + \frac{1}{19a} \ln|\csc ax + \cot ax|$ (110) $\int \frac{1}{\cos^{20} ax} dx = \frac{\sin ax}{19a} - \frac{3 \sin^3 ax \cos^{17} ax}{18a} + \frac{3 \sin^5 ax \cos^{15} ax}{18a} - \frac{1}{19a} \ln|\sec ax + \tan ax|$ (111) $\int \frac{1}{\sin^{21} ax} dx = -\frac{\cos ax}{20a} + \frac{3 \sin ax \cos^{19} ax}{19a} - \frac{3 \sin^3 ax \cos^{17} ax}{19a} + \frac{1}{20a} \ln|\csc ax + \cot ax|$ (112) $\int \frac{1}{\cos^{21} ax} dx = \frac{\sin ax}{20a} - \frac{3 \sin^3 ax \cos^{18} ax}{19a} + \frac{3 \sin^5 ax \cos^{16} ax}{19a} - \frac{1}{20a} \ln|\sec ax + \tan ax|$ (113) $\int \frac{1}{\sin^{22} ax} dx = -\frac{\cos ax}{21a} + \frac{3 \sin ax \cos^{20} ax}{20a} - \frac{3 \sin^3 ax \cos^{18} ax}{20a} + \frac{1}{21a} \ln|\csc ax + \cot ax|$ (114) $\int \frac{1}{\cos^{22} ax} dx = \frac{\sin ax}{21a} - \frac{3 \sin^3 ax \cos^{19} ax}{20a} + \frac{3 \sin^5 ax \cos^{17} ax}{20a} - \frac{1}{21a} \ln|\sec ax + \tan ax|$ (115) $\int \frac{1}{\sin^{23} ax} dx = -\frac{\cos ax}{22a} + \frac{3 \sin ax \cos^{21} ax}{21a} - \frac{3 \sin^3 ax \cos^{19} ax}{21a} + \frac{1}{22a} \ln|\csc ax + \cot ax|$ (116) $\int \frac{1}{\cos^{23} ax} dx = \frac{\sin ax}{22a} - \frac{3 \sin^3 ax \cos^{20} ax}{21a} + \frac{3 \sin^5 ax \cos^{18} ax}{21a} - \frac{1}{22a} \ln|\sec ax + \tan ax|$ (117) $\int \frac{1}{\sin^{24} ax} dx = -\frac{\cos ax}{23a} + \frac{3 \sin ax \cos^{22} ax}{22a} - \frac{3 \sin^3 ax \cos^{20} ax}{22a} + \frac{1}{23a} \ln|\csc ax + \cot ax|$ (118) $\int \frac{1}{\cos^{24} ax} dx = \frac{\sin ax}{23a} - \frac{3 \sin^3 ax \cos^{21} ax}{22a} + \frac{3 \sin^5 ax \cos^{19} ax}{22a} - \frac{1}{23a} \ln|\sec ax + \tan ax|$ (119) $\int \frac{1}{\sin^{25} ax} dx = -\frac{\cos ax}{24a} + \frac{3 \sin ax \cos^{23} ax}{23a} - \frac{3 \sin^3 ax \cos^{21} ax}{23a} + \frac{1}{24a} \ln|\csc ax + \cot ax|$ (120) $\int \frac{1}{\cos^{25} ax} dx = \frac{\sin ax}{24a} - \frac{3 \sin^3 ax \cos^{22} ax}{23a} + \frac{3 \sin^5 ax \cos^{20} ax}{23a} - \frac{1}{24a} \ln|\sec ax + \tan ax|$ (121) $\int \frac{1}{\sin^{26} ax} dx = -\frac{\cos ax}{25a} + \frac{3 \sin ax \cos^{24} ax}{24a} - \frac{3 \sin^3 ax \cos^{22} ax}{24a} + \frac{1}{25a} \ln|\csc ax + \cot ax|$ (122) $\int \frac{1}{\cos^{26} ax} dx = \frac{\sin ax}{25a} - \frac{3 \sin^3 ax \cos^{23} ax}{24a} + \frac{3 \sin^5 ax \cos^{21} ax}{24a} - \frac{1}{25a} \ln|\sec ax + \tan ax|$ (123) $\int \frac{1}{\sin^{27} ax} dx = -\frac{\cos ax}{26a} + \frac{3 \sin ax \cos^{25} ax}{25a} - \frac{3 \sin^3 ax \cos^{23} ax}{25a} + \frac{1}{26a} \ln|\csc ax + \cot ax|$ (124) $\int \frac{1}{\cos^{27} ax} dx = \frac{\sin ax}{26a} - \frac{3 \sin^3 ax \cos^{24} ax}{25a} + \frac{3 \sin^5 ax \cos^{22} ax}{25a} - \frac{1}{26a} \ln|\sec ax + \tan ax|$ (125) $\int \frac{1}{\sin^{28} ax} dx = -\frac{\cos ax}{27a} + \frac{3 \sin ax \cos^{26} ax}{26a} - \frac{3 \sin^3 ax \cos^{24} ax}{26a} + \frac{1}{27a} \ln|\csc ax + \cot ax|$ (126) $\int \frac{1}{\cos^{28} ax} dx = \frac{\sin ax}{27a} - \frac{3 \sin^3 ax \cos^{25} ax}{26a} + \frac{3 \sin^5 ax \cos^{23} ax}{26a} - \frac{1}{27a} \ln|\sec ax + \tan ax|$ (127) $\int \frac{1}{\sin^{29} ax} dx = -\frac{\cos ax}{28a} + \frac{3 \sin ax \cos^{27} ax}{27a} - \frac{3 \sin^3 ax \cos^{25} ax}{27a} + \frac{1}{28a} \ln|\csc ax + \cot ax|$ (128) $\int \frac{1}{\cos^{29} ax} dx = \frac{\sin ax}{28a} - \frac{3 \sin^3 ax \cos^{26} ax}{27a} + \frac{3 \sin^5 ax \cos^{24} ax}{27a} - \frac{1}{28a} \ln|\sec ax + \tan ax|$ (129) $\int \frac{1}{\sin^{30} ax} dx = -\frac{\cos ax}{29a} + \frac{3 \sin ax \cos^{28} ax}{28a} - \frac{3 \sin^3 ax \cos^{26} ax}{28a} + \frac{1}{29a} \ln|\csc ax + \cot ax|$ (130) $\int \frac{1}{\cos^{30} ax} dx = \frac{\sin ax}{29a} - \frac{3 \sin^3 ax \cos^{27} ax}{28a} + \frac{3 \sin^5 ax \cos^{25} ax}{28a} - \frac{1}{29a} \ln|\sec ax + \tan ax|$ (131) $\int \frac{1}{\sin^{31} ax} dx = -\frac{\cos ax}{30a} + \frac{3 \sin ax \cos^{29} ax}{29a} - \frac{3 \sin^3 ax \cos^{27} ax}{29a} + \frac{1}{30a} \ln|\csc ax + \cot ax|$ (132) $\int \frac{1}{\cos^{31} ax} dx = \frac{\sin ax}{30a} - \frac{3 \sin^3 ax \cos^{28} ax}{29a} + \frac{3 \sin^5 ax \cos^{26} ax}{29a} - \frac{1}{30a} \ln|\sec ax + \tan ax|$ (133) $\int \frac{1}{\sin^{32} ax} dx = -\frac{\cos ax}{31a} + \frac{3 \sin ax \cos^{30} ax}{30a} - \frac{3 \sin^3 ax \cos^{28} ax}{30a} + \frac{1}{31a} \ln|\csc ax + \cot ax|$ (134) $\int \frac{1}{\cos^{32} ax} dx = \frac{\sin ax}{31a} - \frac{3 \sin^3 ax \cos^{29} ax}{30a} + \frac{3 \sin^5 ax \cos^{27} ax}{30a} - \frac{1}{31a} \ln|\sec ax + \tan ax|$ (135) $\int \frac{1}{\sin^{33} ax} dx = -\frac{\cos ax}{32a} + \frac{3 \sin ax \cos^{31} ax}{31a} - \frac{3 \sin^3 ax \cos^{29} ax}{31a} + \frac{1}{32a} \ln|\csc ax + \cot ax|$ (136) $\int \frac{1}{\cos^{33} ax} dx = \frac{\sin ax}{32a} - \frac{3 \sin^3 ax \cos^{30} ax}{31a} + \frac{3 \sin^5 ax \cos^{28} ax}{31a} - \frac{1}{32a} \ln|\sec ax + \tan ax|$ (137) $\int \frac{1}{\sin^{34} ax} dx = -\frac{\cos ax}{33a} + \frac{3 \sin ax \cos^{32} ax}{32a} - \frac{3 \sin^3 ax \cos^{30} ax}{32a} + \frac{1}{33a} \ln|\csc ax + \cot ax|$ (138) $\int \frac{1}{\cos^{34} ax} dx = \frac{\sin ax}{33a} - \frac{3 \sin^3 ax \cos^{31} ax}{32a} + \frac{3 \sin^5 ax \cos^{29} ax}{32a} - \frac{1}{33a} \ln|\sec ax + \tan ax|$ (139) $\int \frac{1}{\sin^{35} ax} dx = -\frac{\cos ax}{34a} + \frac{3 \sin ax \cos^{33} ax}{33a} - \frac{3 \sin^3 ax \cos^{31} ax}{33a} + \frac{1}{34a} \ln|\csc ax + \cot ax|$ (140) $\int \frac{1}{\cos^{35} ax} dx = \frac{\sin ax}{34a} - \frac{3 \sin^3 ax \cos^{32} ax}{33a} + \frac{3 \sin^5 ax \cos^{30} ax}{33a} - \frac{1}{34a} \ln|\sec ax + \tan ax|$ (141) $\int \frac{1}{\sin^{36} ax} dx = -\frac{\cos ax}{35a} + \frac{3 \sin ax \cos^{34} ax}{34a} - \frac{3 \sin^3 ax \cos^{32} ax}{34a} + \frac{1}{35a} \ln|\csc ax + \cot ax|$ (142) $\int \frac{1}{\cos^{36} ax} dx = \frac{\sin ax}{35a} - \frac{3 \sin^3 ax \cos^{33} ax}{34a} + \frac{3 \sin^5 ax \cos^{31} ax}{34a} - \frac{1}{35a} \ln|\sec ax + \tan ax|$ (143) $\int \frac{1}{\sin^{37} ax} dx = -\frac{\cos ax}{36a} + \frac{3 \sin ax \cos^{35} ax}{35a} - \frac{3 \sin^3 ax \cos^{33} ax}{35a} + \frac{1}{36a} \ln|\csc ax + \cot ax|$ (144) $\int \frac{1}{\cos^{37} ax} dx = \frac{\sin ax}{36a} - \frac{3 \sin^3 ax \cos^{34} ax}{35a} + \frac{3 \sin^5 ax \cos^{32} ax}{35a} - \frac{1}{36a} \ln|\sec ax + \tan ax|$ (145) $\int \frac{1}{\sin^{38} ax} dx = -\frac{\cos ax}{37a} + \frac{3 \sin ax \cos^{36} ax}{36a} - \frac{3 \sin^3 ax \cos^{34} ax}{36a} + \frac{1}{37a} \ln|\csc ax + \cot ax|$ (146) $\int \frac{1}{\cos^{38} ax} dx = \frac{\sin ax}{37a} - \frac{3 \sin^3 ax \cos^{35} ax}{36a} + \frac{3 \sin^5 ax \cos^{33} ax}{36a} - \frac{1}{37a} \ln|\sec ax + \tan ax|$ (147) $\int \frac{1}{\sin^{39} ax} dx = -\frac{\cos ax}{38a} + \frac{3 \sin ax \cos^{37} ax}{37a} - \frac{3 \sin^3 ax \cos^{35} ax}{37a} + \frac{1}{38a} \ln|\csc ax + \cot ax|$ (148) $\int \frac{1}{\cos^{39} ax} dx = \frac{\sin ax}{38a} - \frac{3 \sin^3 ax \cos^{36} ax}{37a} + \frac{3 \sin^5 ax \cos^{34} ax}{37a} - \frac{1}{38a} \ln|\sec ax + \tan ax|$ (149) $\int \frac{1}{\sin^{40} ax} dx = -\frac{\cos ax}{39a} + \frac{3 \sin ax \cos^{38} ax}{38a} - \frac{3 \sin^3 ax \cos^{36} ax}{38a} + \frac{1}{39a} \ln|\csc ax + \cot ax|$ (150) $\int \frac{1}{\cos^{40} ax} dx = \frac{\sin ax}{39a} - \frac{3 \sin^3 ax \cos^{37} ax}{38a} + \frac{3 \sin^5 ax \cos^{35} ax}{38a} - \frac{1}{39a} \ln|\sec ax + \tan ax|$ (151) $\int \frac{1}{\sin^{41} ax} dx = -\frac{\cos ax}{40a} + \frac{3 \sin ax \cos^{39} ax}{39a} - \frac{3 \sin^3 ax \cos^{37} ax}{39a} + \frac{1}{40a} \ln|\csc ax + \cot ax|$ (152) $\int \frac{1}{\cos^{41} ax} dx = \frac{\sin ax}{40a} - \frac{3 \sin^3 ax \cos^{38} ax}{39a} + \frac{3 \sin^5 ax \cos^{36} ax}{39a} - \frac{1}{40a} \ln|\sec ax + \tan ax|$ (153) $\int \frac{1}{\sin^{42} ax} dx = -\frac{\cos ax}{41a} + \frac{3 \sin ax \cos^{40} ax}{40a} - \frac{3 \sin^3 ax \cos^{38} ax}{40a} + \frac{1}{41a} \ln|\csc ax + \cot ax|$ (154) $\int \frac{1}{\cos^{42} ax} dx = \frac{\sin ax}{41a} - \frac{3 \sin^3 ax \cos^{39} ax}{40a} + \frac{3 \sin^5 ax \cos^{37} ax}{40a} - \frac{1}{41a} \ln|\sec ax + \tan ax|$ (155) $\int \frac{1}{\sin^{43} ax} dx = -\frac{\cos ax}{42a} + \frac{3 \sin ax \cos^{41} ax}{41a} - \frac{3 \sin^3 ax \cos^{39} ax}{41a} + \frac{1}{42a} \ln|\csc ax + \cot ax|$ (156) $\int \frac{1}{\cos^{43} ax} dx = \frac{\sin ax}{42a} - \frac{3 \sin^3 ax \cos^{40} ax}{41a} + \frac{3 \sin^5 ax \cos^{38} ax}{41a} - \frac{1}{42a} \ln|\sec ax + \tan ax|$ (157) $\int \frac{1}{\sin^{44} ax} dx = -\frac{\cos ax}{43a} + \frac{3 \sin ax \cos^{42} ax}{42a} - \frac{3 \sin^3 ax \cos^{40} ax}{42a} + \frac{1}{43a} \ln|\csc ax + \cot ax|$ (158) $\int \frac{1}{\cos^{44} ax} dx = \frac{\sin ax}{43a} - \frac{3 \sin^3 ax \cos^{41} ax}{42a} + \frac{3 \sin^5 ax \cos^{39} ax}{42a} - \frac{1}{43a} \ln|\sec ax + \tan ax|$ (159) $\int \frac{1}{\sin^{45} ax} dx = -\frac{\cos ax}{44a} + \frac{3 \sin ax \cos^{43} ax}{43a} - \frac{3 \sin^3 ax \cos^{41} ax}{43a} + \frac{1}{44a} \ln|\csc ax + \cot ax|$ (160) $\int \frac{1}{\cos^{45} ax} dx = \frac{\sin ax}{44a} - \frac{3 \sin^3 ax \cos^{42} ax}{43a} + \frac{3 \sin^5 ax \cos^{40} ax}{43a} - \frac{1}{44a} \ln|\sec ax + \tan ax|$ (161) $\int \frac{1}{\sin^{46} ax} dx = -\frac{\cos ax}{45a} + \frac{3 \sin ax \cos^{44} ax}{44a} - \frac{3 \sin^3 ax \cos^{42} ax}{44a} + \frac{1}{45a} \ln|\csc ax + \cot ax|$ (162) $\int \frac{1}{\cos^{46} ax} dx = \frac{\sin ax}{45a} - \frac{3 \sin^3 ax \cos^{43} ax}{44a} + \frac{3 \sin^5 ax \cos^{41} ax}{44a} - \frac{1}{45a} \ln|\sec ax + \tan ax|$ (163) $\int \frac{1}{\sin^{47} ax} dx = -\frac{\cos ax}{46a} + \frac{3 \sin ax \cos^{45} ax}{45a} - \frac{3 \sin^3 ax \cos^{43} ax}{45a} + \frac{1}{46a} \ln|\csc ax + \cot ax|$ (164) $\int \frac{1}{\cos^{47} ax} dx = \frac{\sin ax}{46a} - \frac{3 \sin^3 ax \cos^{44} ax}{45a} + \frac{3 \sin^5 ax \cos^{42} ax}{45a} - \frac{1}{46a} \ln|\sec ax + \tan ax|$ (165) $\int \frac{1}{\sin^{48} ax} dx = -\frac{\cos ax}{47a} + \frac{3 \sin ax \cos^{46} ax}{46a} - \frac{3 \sin^3 ax \cos^{44} ax}{46a} + \frac{1}{47a} \ln|\csc ax + \cot ax|$ (166) $\int \frac{1}{\cos^{48} ax} dx = \frac{\sin ax}{47a} - \frac{3 \sin^3 ax \cos^{45} ax}{46a} + \frac{3 \sin^5 ax \cos^{43} ax}{46a} - \frac{1}{47a} \ln|\sec ax + \tan ax|$ (167) $\int \frac{1}{\sin^{49} ax} dx = -\frac{\cos ax}{48a} + \frac{3 \sin ax \cos^{47} ax}{47a} - \frac{3 \sin^3 ax \cos^{45} ax}{47a} + \frac{1}{48a} \ln|\csc ax + \cot ax|$ (168) $\int \frac{1}{\cos^{49} ax} dx = \frac{\sin ax}{48a} - \frac{3 \sin^3 ax \cos^{46} ax}{47a} + \frac{3 \sin^5 ax \cos^{44} ax}{47a} - \frac{1}{48a} \ln|\sec ax + \tan ax|$ (169) $\int \frac{1}{\sin^{50} ax} dx = -\frac{\cos ax}{49a} + \frac{3 \sin ax \cos^{48} ax}{48a} - \frac{3 \sin^3 ax \cos^{46} ax}{48a} + \frac{1}{49a} \ln|\csc ax + \cot ax|$ (170) $\int \frac{1}{\cos^{50} ax} dx = \frac{\sin ax}{49a} - \frac{3 \sin^3 ax \cos^{47} ax}{48a} + \frac{3 \sin^5 ax \cos^{45} ax}{48a} - \frac{1}{49a} \ln|\sec ax + \tan ax|$ (171) $\int \frac{1}{\sin^{51} ax} dx = -\frac{\cos ax}{50a} + \frac{3 \sin ax \cos^{49} ax}{49a} - \frac{3 \sin^3 ax \cos^{47} ax}{49a} + \frac{1}{50a} \ln|\csc ax + \cot ax|$ (172) $\int \frac{1}{\cos^{51} ax} dx = \frac{\sin ax}{50a} - \frac{3 \sin^3 ax \cos^{48} ax}{49a} + \frac{3 \sin^5 ax \cos^{46} ax}{49a} - \frac{1}{50a} \ln|\sec ax + \tan ax|$ (173) $\int \frac{1}{\sin^{52} ax} dx = -\frac{\cos ax}{51a} + \frac{3 \sin ax \cos^{50} ax}{50a} - \frac{3 \sin^3 ax \cos^{48} ax}{50a} + \frac{1}{51a} \ln|\csc ax + \cot ax|$ (174) $\int \frac{1}{\cos^{52} ax} dx = \frac{\sin ax}{51a} - \frac{3 \sin^3 ax \cos^{49} ax}{50a} + \frac{3 \sin^5 ax \cos^{47} ax}{50a} - \frac{1}{51a} \ln|\sec ax + \tan ax|$ (175) $\int \frac{1}{\sin^{53} ax} dx = -\frac{\cos ax}{52a} + \frac{3 \sin ax \cos^{51} ax}{51a} - \frac{3 \sin^3 ax \cos^{49} ax}{51a} + \frac{1}{52a} \ln|\csc ax + \cot ax|$ (176) $\int \frac{1}{\cos^{53} ax} dx = \frac{\sin ax}{52a} - \frac{3 \sin^3 ax \cos^{50} ax}{51a} + \frac{3 \sin^5 ax \cos^{48} ax}{51a} - \frac{1}{52a} \ln|\sec ax + \tan ax|$ (177) $\int \frac{1}{\sin^{54} ax} dx = -\frac{\cos ax}{53a} + \frac{3 \sin ax \cos^{52} ax}{52a} - \frac{3 \sin^3 ax \cos^{50} ax}{52a} + \frac{1}{53a} \ln|\csc ax + \cot ax|$ (178) $\int \frac{1}{\cos^{54} ax} dx = \frac{\sin ax}{53a} - \frac{3 \sin^3 ax \cos^{51} ax}{52a} + \frac{3 \sin^5 ax \cos^{49} ax}{52a} - \frac{1}{53a} \ln|\sec ax + \tan ax|$ (179) $\int \frac{1}{\sin^{55} ax} dx = -\frac{\cos ax}{54a} + \frac{3 \sin ax \cos^{53} ax}{53a} - \frac{3 \sin^3 ax \cos^{51} ax}{53a} + \frac{1}{54a} \ln|\csc ax + \cot ax|$ (180) $\int \frac{1}{\cos^{55} ax} dx = \frac{\sin ax}{54a} - \frac{3 \sin^3 ax \cos^{52} ax}{53a} + \frac{3 \sin^5 ax \cos^{50} ax}{53a} - \frac{1}{54a} \ln|\sec ax + \tan ax|$ (181) $\int \frac{1}{\sin^{56} ax} dx = -\frac{\cos ax}{55a} + \frac{3 \sin ax \cos^{54} ax}{54a} - \frac{3 \sin^3 ax \cos^{52} ax}{54a} + \frac{1}{55a} \ln|\csc ax + \cot ax|$ (182) $\int \frac{1}{\cos^{56} ax} dx = \frac{\sin ax}{55a} - \frac{3 \sin^3 ax \cos^{53} ax}{54a} + \frac{3 \sin^5 ax \cos^{51} ax}{54a} - \frac{1}{55a} \ln|\sec ax + \tan ax|$ (183) $\int \frac{1}{\sin^{57} ax} dx = -\frac{\cos ax}{56a} + \frac{3 \sin ax \cos^{55} ax}{55a} - \frac{3 \sin^3 ax \cos^{53} ax}{55a} + \frac{1}{56a} \ln|\csc ax + \cot ax|$ (184) $\int \frac{1}{\cos^{57} ax} dx = \frac{\sin ax}{56a} - \frac{3 \sin^3 ax \cos^{54} ax}{55a} + \frac{3 \sin^5 ax \cos^{52} ax}{55a} - \frac{1}{56a} \ln|\sec ax + \tan ax|$ (185) $\int \frac{1}{\sin^{58} ax} dx = -\frac{\cos ax}{57a} + \frac{3 \sin ax \cos^{56} ax}{56a} - \frac{3 \sin^3 ax \cos^{54} ax}{56a} + \frac{1}{57a} \ln|\csc ax + \cot ax|$ (186) $\int \frac{1}{\cos^{58} ax} dx = \frac{\sin ax}{57a} - \frac{3 \sin^3 ax \cos^{55} ax}{56a} + \frac{3 \sin^5 ax \cos^{53} ax}{56a} - \frac{1}{57a} \ln$

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