Unterpasa $2\alpha CT6NI$. (1) Mydohah 8.1.29 $\int \frac{dx}{x^2 \int x} = \int \bar{x}^2 \cdot x^2 dx = \int \bar{x}^2 dx = \int AuA$ JA416 $= \int x^{d} dx = \frac{x^{d+1}}{o(x)} + c \int = \frac{x^{\frac{2}{3}}}{-\frac{3}{3}} + c = \frac{-2}{3x \int 3} + c$ S.1.30 $\int \frac{O(x)}{x^2+3} = \left[\int \frac{O(x)}{x^2+\alpha^2} - \frac{1}{\alpha} \frac{\partial x}{\partial x^2} + C, \text{ or } -5\right] = \frac{1}{\alpha} \int \frac{O(x)}{x^2+3} = \left[\int \frac{O(x)}{x^2+\alpha^2} - \frac{1}{\alpha} \frac{\partial x}{\partial x^2} + C, \text{ or } -5\right] = \frac{1}{\alpha} \int \frac{O(x)}{x^2+3} = \left[\int \frac{O(x)}{x^2+3} - \frac{1}{\alpha} \frac{\partial x}{\partial x^2} + C, \text{ or } -5\right] = \frac{1}{\alpha} \int \frac{O(x)}{x^2+3} = \frac{1}{\alpha} \int \frac{O(x)}{x^2+3} + C, \text{ or } -5$ $= \frac{d^2x}{x^2+(\sqrt{3})^2} = \frac{1}{53} and \frac{2}{53} + C$ $\frac{\partial}{\partial t} = \frac{1}{5x} \frac{1}{5x$ $= \frac{\left(\frac{1}{5}\right)^{2}}{\ell n \frac{1}{5}} + \left(\frac{1}{5} + \frac{1}{5} + \left(\frac{1}{5} + \frac{1}{5} + \frac{1}$ 8.1.32 $\int \frac{dx}{\sqrt{4-x^2}} = \int \int \frac{0/x}{\sqrt{x^2-x^2}} = axcsin \frac{x}{a} \left[+(d-2) - \int \frac{0/x}{\sqrt{x^2-x^2}} \right] = 0$ = dresen x+C 8.1.33 $\int \frac{dx}{\int x^2-1} = \left[\int \frac{dx}{\int x^2+2} - e_n \left| x + \int x^2 + d \right| + \left(- d - 1 \right) - \right]$ $8.1.34 \int \frac{\partial x}{x^2 - 25} = \left[\int \frac{\partial x}{x^2 - \alpha} = \frac{1}{2\alpha} (n) \frac{x - \alpha}{x + \alpha} \right] + \left(\alpha = 5 \right] = \int \frac{\partial x}{x^2 - 5^2} = \frac{1}{2\alpha} \left[\frac{\partial x}{\partial x} \right] = \frac{1}{2\alpha}$ = (n 190 + 5x2-1/+($= \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left(\frac{3x-5}{x+5} \right) + C \right) \\ = \int \frac{1}{10} \left(n \left($ +4. -1 + (= 3/3 + 2x2 - 5x + (8.1.36 $\int \frac{dx}{4x^2x_1} = \frac{1}{4} \int \frac{dx}{x^2x_4} = \frac{1}{4} \int \frac{dx}{x^2x_4} = \frac{1}{4} \int \frac{dx}{x^2x_5} = \frac{1}{4} \int \frac{dx}{$ 8.1.37 S(xx-\frac{8}{x}+4105x)0(x=\frac{x}{x}dx-8\frac{\alpha}{x}+4\frac{\losxdx=}{} = 7" - 8PA/501+4SCnx+(

8.1.38 $\int \left(\frac{53}{\cos^2 x} - 35x - \frac{2}{34} \right) dx = 53 \int \frac{\alpha x}{\cos^2 x} - \left(\frac{x^{1/3}}{3} dx - 2 \right) \frac{1}{5} \frac{1}{6} dx = \frac{1}{3} \frac{1}{3} \frac{1}{3} dx = \frac{1}{3} \frac{1}{3}$ $\sqrt{3} + 9x - \frac{34}{5} + \frac{2x^{3}}{3} + 1 = \sqrt{3} + 4y = \frac{3x^{\frac{7}{3}}}{4} + \frac{2}{3x^{3}} + ($ 8.1.37 $\int \frac{3\pi - 3}{45\pi} = \int \frac{3\pi}{45\pi} = \int \frac{3\pi}{$ $= \int x^{1/2} \cdot x^{-\frac{1}{4}} dx - 3 \int x^{\frac{2}{5}} \cdot x^{\frac{3}{5}} = \int x^{\frac{1}{5}} = \int x^{\frac{1}{5}$ 8.1.40 \$ 107x (+0.2(0.5) dx = 0.7 x dx + 02 \$0.5) dx= $=0.7.\frac{1}{0.9}+0.2-(0.5)^{31}+(=\frac{7}{9})^{0.9}-\frac{1}{2^{21}.5en2}+($ 8.1.41 S(5Shx-7chor+1) dx=5) shxdx-7 schxdx+)dx= 5 SChx-7512 + or + C 8.1.42 $\int (x^2-1)(5x+4) dx = \int (x^2 \int x + \int x + 4x^2 - 4) dx =$ $= \int x^2 x^{\frac{1}{2}} o(x - \int x^{\frac{1}{2}} dx + 4 \int x^2 o(x - 4) dx = \int x^{\frac{1}{2}} o(x - 4) dx = \int x^{\frac{1$ 8.1.43 \ \frac{1}{2 - \interpretection \day = \interpretection \frac{1}{2 \tau \frac{1}{2} + 17} \day = \interpretection \frac{1}{2} \frac $= \frac{4 \ln 101 + \sqrt{x^2 + 17}}{8 \cdot 1 \cdot 9} - x + (\frac{151 - 5}{x^3})^3 o(x = \frac{3}{x^3} - 3x \cdot 5 + 3)x \cdot 25 + 15 dx = \frac{3}{x^3}$ (x2. x3 dx -) 15x dx + 45 /x3 dx - 125 /x3 -) x3 dx-15 (x20/x475) xdx- $-125 \int_{x}^{5} x^{5} o(x = \frac{125}{2x^{2}} - \frac{50}{x5x} + \frac{15}{7} - \frac{1}{25x} + ($ 8.1.45 Sscn xxolor=[t=xx=> o(+=(xx)'xdx=7dx=7dx=7dx=4ol+]-= | sint \(\frac{1}{2} \left \) \(\text{Sint } \de = -\frac{1}{2} \left \) \(\text{Cost} \text{C} = -\frac{1}{2} \left \) \(\text{C} = -\frac{1}{2} \left \) \(\text{C} =

8.1.45 $\int S(n \neq x) dx = \int t = + x = + dt = (2x/20)x = 2dx = x$ = $70(x = \frac{1}{2}dt) = \int S(nt \neq dt) = \frac{1}{2}\int S(nt dt) = -\frac{1}{2}\int S(n$ =- 1 COSYX+C 8.1.46 $\int \int 2x-80 dx = [t=2x-8=rdt=[2x-8]xdx=2dx=$ => $dx=\frac{1}{2}$ $olt]=\int \int t t dt = \frac{1}{2} \int t^{5} dt = \frac{1}{2} \int t^{5} + (-\frac{1}{2} \int t^{5} +$ 8.1.47 $\int (1-4\pi)^{2001} dx = \int t = t-4\pi \Rightarrow dt = -40/\pi, dx = \frac{4}{4} = -\frac{1}{4} \int_{0}^{2001} dt = -\frac{1}$ 8.1.48. \ \frac{\de}{9\kepti = 2} = \frac{1}{t} = \frac{de}{t} = \frac{1}{t} = 9\kepti + 7\de = 9dx'\dx = \frac{1}{2}dt' = \f = f · (n/t) + (= f ch 19x+2/+C 8.199 Starting = [t=6x+11; dt=6dx; ds==6ole] = $=\frac{1}{6}\int \frac{\partial \xi}{\partial t} - \frac{1}{6}\int \xi \frac{\partial \xi}{\partial t} = -\frac{1}{6}\int \frac{\xi^{-3}}{3} + C = \frac{1}{10\xi^{-3}} + C = \frac{1}{10\xi^{-3}$ $\frac{\partial_{-1.50} \int \frac{\partial \Omega}{25 x^{2} e_{1}} = \frac{1}{25} \int \frac{\partial \Omega}{x^{2} e_{25}} = \frac{1}{25} \int \frac{\partial \Omega}{x^{2} + |\Omega,2|^{2}} \frac{1}{25} \int \frac{\partial \Omega}{\partial x^{2} + |\Omega,2|^{2}} \frac{1}{25} \int \frac{\partial \Omega}{\partial x^{2} + |\Omega,2|^{2}} \frac{1}{25} \frac{1}{\sqrt{25}} \frac{1}{\sqrt{25}}$ 8-1.51 \\ 32-11x \(\partial x = \begin{bmatrix} \text{t-2-11x'} \(\partial x = \text{11x'} \\ \text{t-2-11x'} \\ \text{t-2-11x' $= -\frac{1}{11} \int_{3}^{3} \xi d\xi = -\frac{1}{11} \cdot \frac{3\xi}{2n3} + (-\frac{3^{2}-11x}{112n3} + ($ $8.1.52 \int \frac{d2}{\sqrt{4x^2-1}} = \frac{1}{16} \int \frac{d2}{\sqrt{x^2-4}} = \frac{1}{16} \ln |x+\sqrt{x^2-0.25}| + ($ 8.1.53 \S(n^2) x o(x = [37 = t; dt=3dx; dx=\frac{1}{3}dt]-= \frac{1}{3}\sca^2 + dt = \frac{1}{3}\sca^2 \frac{1-\cos2+}{2}\dt = \frac{1}{3}\frac{1}{2}\dt = \frac{1}{3}\frac{1}{2}\sca^2 + dt = \frac{1}{3}\frac{1}{2}\sca^2 \frac{1}{2}\sca^2 \frac{1}{2}\ = \$\int \(\frac{1}{6}\) cos2+\(\frac{1}{6} + \frac{1}{6}\) \(\frac{1}{6 = 2 - 72 Scn 6x+(

8.1.54 $\int \cos^2 8 \times dx = \int t = 8 \times \cot t = 8 dx \cot t = 4$ = $\int \cos^2 t \, dt = \int \int \frac{1 + \cos 2t}{2} \, dt = \int \int \frac{1}{2} \int dt + \int \int \int \cos 2t \, dt = \frac{1}{2}$ = $\frac{1}{16} \int dt + \int \int \frac{1 + \cos 2t}{2} \int dt + \int \int \int \int \cos 2t \, dt = \frac{1}{2} \int \cos 2t \, dt = \frac{1}{2} \int \int \cot 2t \, dt = \frac{1}{2} \int \cot 2t \, dt = \frac{1}{2}$

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