$\frac{116762pass}{8.4.12} \int \frac{dx}{x+35x^2} = \frac{3}{x+35x^2} \int \frac{3}{x+35x^2} = \frac{3}{x+35x^2} \int \frac{$ 8.4.15 \(\frac{\int x}{1+\sqrt{x}^3} dx = \bigg[\frac{\int -2}{9 = 4} \] = HOK(\frac{2}{3};4) = 4 = 7 \times = \frac{4}{2} \delta = \frac{4}{3} d \times \bigg[-5] \frac{\int \int \int \delta \del -38n/3/x e11+C $= 4 \int \frac{t^2 \cdot t^3 dt}{1 + t^5} = 4 \int \frac{t^6 dt}{t^3 + 1} = 4 \int \frac{t^2 (t^3 + 1) \cdot t}{t^3 + 1} dt = 4 \int \frac{t^2 dt}{t^5 + 1} - 4 \int \frac{t^2 dt}{t^5 + 1} - 4 \int \frac{t^2 dt}{t^5 + 1} dt = 4 \int \frac{t^2 dt}{t^5 + 1$ - 3 (x2+1) = 4(1) - 3en/23+1)+(= 3(x4)3-3en/2+/31/6= = 4 2 = 3 en/x +1/+(8.4.15 | Trolx = [4:3 | =7 HOK (2,3)=6=7x=+ => dx=61 olf]= | +3.61 olf - $\int \frac{6\ell' d\ell}{\ell''(\ell'-1)} = 6 \int \frac{\ell''-1}{\ell''-1} = 6 \int \frac{\ell''-1}{\ell''-1} d\ell = 6 \int \frac{\ell''-1}{\ell''-1} d\ell = 6 \int \frac{\ell''-1}{\ell''-1} = 6 \int \frac{\ell''-1$ +6/2-1= 2 +62+62+62 PR / +11/+(=2+3+62+3(R) / +1/+(=25x+65) 2+3(R) / 5/41/+(=25x+65) 2+3(R) / 5/41/+(=2+3+62) 2+3(R) / 5/41/+(=2+3+62) 2+3(R) / (=2+3) (R) / (=2+ $=2\int \{dt-2\int dt+2\int \frac{dt}{t+1}=t^2-2t+2\cdot ln|t+1|t|=x-2\int x+2ln|\int x+1|t|$ 8-4. 18 $\int \frac{\int x \, dx}{x} \, dx = \left[x + 2 = t^2 = 7x = t^2 - 2 \right], of x=2t \, dt = \int \frac{t}{t^2 - 2} \, dx = \int \frac{t^2 - 2 + 2}{t^2 - 2} \, dt = \int dt + \frac{t}{t^2 - 2} \, dx = \int dt = \int dt + \frac{t}{t^2 - 2} \, dx = \int dt = \int d$ 8.4.20 $\int \frac{dx}{(x+1)^{3/2} + (x+1)^{5/2}} = \int x+1=t^{2}/dx=2tdt]=2\int \frac{tdt}{t^{3}+t}=2\int \frac{tdt}{t(t^{2}+1)}=2\int \frac{dt}{t^{3}+t}=2\int \frac{tdt}{t(t^{2}+1)}=2\int \frac{dt}{t^{3}+t}=2\int \frac{dt}{t(t^{2}+1)}=2\int \frac{dt}{t($ 204/fg++(=2046fg Jz.1+(8-4-29 \(\frac{\interms 1 + \interms 1 \ \oldown = \left(\frac{\interms 1 + \interms 2 \ \interms 1 + \interms 1 \ \oldown = \left(\frac{\interms 1 + \interms 2 - \interms 1 \ \oldown \interms 2 = 20+46+60n1+11+(=>(+4)Tex +40n1x+x-1/+(8127. $\int_{2N-1}^{N-1} dx = \left[2x - 1 = \ell^2 - 72c = \frac{\ell^2 \epsilon_f}{\ell} = 7dx = \frac{1}{2} \cdot \ell d\ell = \ell d\ell \right] = \int_{-\frac{\pi}{2}}^{\ell^2 + 1} \ell d\ell = \int_{-\frac{\pi}{2}}^{\ell^2 + 1} \ell$ = \full \frac{1}{3}(2x-1)-1)+(=\J2x-1)\frac{1}{3}x-\frac{2}{3})+(=\frac{1}{3}\sqrt{2}x-1)+(8.4.23 /1-21-01-22= [1-2x=+=>)(1-6)=>dx=2+3d+]= [2+dk-]2+dk= 101-2x-1/+6

8-4-94 11-x1 - 2-x dx = [= x = (2-1x=2-142= 7dx= $= 2.-2 \left(\frac{1}{1 \cdot e^{2}} \right) - 2 \left(\frac{1}{1 \cdot e^{2}} \right) \left(\frac{1}{1$ -2 /4 Pdt=-2 St2 dt=-2. +(=-2+3+(=1-1/2+2)3 =) (+ 36 + 26 + 13) + (= for 3 + fx2) = + 2x2 + 3 x / x + 6 8.4.35 Para . 22 dx = 5x2(x3-4) 5dx -[m=2: R=3 1)= 362 = 72 m +1 - 5 167=7713-4=13=> x=3/1516=7dx=123/12+4 dt]=\3(154)2(634-4)3. 1236344 Old = Stode= 4 + (= 4 (x3-4)3723-4+(8.4.36 June = Sur-32) - Sur-32)+1 8.4.40 \ \frac{\sqrt{1-x2}}{\pi} \alpha x = \frac{\zi(1-x2)^{\frac{1}{2}} \end{x} = [m=1, m=2, P=\frac{1}{2} \times \frac{7}{2} = 72) = M-1 = 0 £ 7 = > 1-2 = 1 = > 1 = 1 - 1 = d x = tde - 51-12 Jill -5 1-12 = - Str-141 Ole = - Sde-Str-1 = -t- fent tol /tl-= - J1-22 - 2 ep/ J1-22+1/+C 8.4.42 \ X5\n-2 olx=[m=1,n=1,p=f&7=>2)-12-1-167= =771-2= 65, x=65-2, dx 56404] = S(-15-2) (-56406=5) (-15-2) Febe 25 S(t'0-215) olt =5 Stodt-10 Stode = 5th - 1066+(=516/11-3)+(-=(5)x-10) Jx-2 (3x+5)+(