1628 ((a-8)3 = a3 - 3a8 + 3a62 - 83) $\frac{3}{5} \int (3-\chi^2)^3 d\chi = \int (27-27\chi^2+3\chi^4-\chi^6) d\chi^2 = \frac{2244}{2245}$ 2244 $\left(\int \chi^n d\chi = \frac{\chi^{n+1}}{n+1} + C_{i}\right)$ 2248 $\frac{1}{2}$ $\frac{27}{27}$ $\frac{2}{3}$ $\frac{2}{7}$ $\frac{2}{7}$ $\frac{2}{7}$ $\frac{2}{7}$ $\frac{2}{7}$ $\frac{2}{7}$ $\frac{2}{7}$ $\frac{2}{7}$ $\frac{2}{7}$ 2268 2272 2274 = 27x - 9x3 + 3x5 - 1x7 + C x=5-t 2278 $\frac{1628}{52^{2}} \frac{52}{5-x} \frac{15-x}{4x} = \frac{3}{4x} \frac{1}{2} \frac{1}{4x} \frac{1}{2} \frac{1}{4x} \frac{1}{2} \frac{1}{4x} \frac{1}{2} \frac{1}{2}$ = S-x2 15-x) 4=-15-15-15 - 15-x) 4+= = 5-15-t)2 todt = 5-1t-513 todt = = 5- /t2 - 10t +25) t dt = 5- t6 + 10t5 - 25t9) dt = - 1 + 7 + 6 · 6 - 25 · 6 + C = - = + 5 + 6 - 5 + 5 + C $\frac{z}{7} = \frac{(5-x)^{2}}{7} + \frac{5(5-x)^{6}}{3} - \frac{5(5-x)^{5}}{5(7-x)^{5}} + C$ $\frac{1630}{5(1-x)(7-2x)(7-3x)} = \frac{5(1-3x+2x^{2})}{5(1-3x+2x^{2})}$ (1-3x)dx = \ (11-3x)2+ (1-3x)2x2)dx = = 5(1-6x + 8x2 + 2x2 - 6x3) dx = 5H-6x+11x2-6x3)dx= = x - 6x2 + 11x3 - 6x4 + C = x - 3x2 + 3 2 - 3x4C

1631 S (1-x) 2 dx = S (1-x) 2 dx = 163 2 x - 2 ln/x1 + 5 x - 2 dx 2 x - 2 ln/x1 + 3 $\frac{1}{\sqrt{3}} + \frac{1}{\sqrt{3}} + \frac{1$ $\frac{1632}{5} \left(\frac{\alpha}{2} + \frac{\alpha^{2}}{x^{2}} + \frac{\alpha^{3}}{2} \right) dx^{2}$ $x^{-3} = \frac{2^{-2}}{2}^2 = -\frac{1}{2x^2}$ $= \alpha \cdot \ln |x| + c + \alpha^2 \int \frac{1}{x^2} dx + \alpha^3 \int \frac{1}{x^3} dx =$ $= a \ln |x| - a^2 \frac{1}{x^2} - a^3 \frac{1}{2x^2} + C$ $\int \frac{x+1}{\sqrt{x}} dx = \int \left(\frac{x}{\sqrt{x}} + \frac{1}{\sqrt{x}}\right) dx = \int \frac{x}{\sqrt{x}}$ $= \int (\chi^{\frac{1}{2}} + \chi^{-\frac{1}{2}}) d\chi = 2\frac{\chi^{\frac{3}{2}}}{3} + \frac{2\chi^{\frac{5}{2}}}{1} + C =$ 2 = 2 x \sqrt + 2 \sqrt + C Vx'-2-V22'+1dx= 5(1x'-2-1x'+1)

1635 (16-x) dx = 5 (4-x) (7-x) dx = 2 \(\left(1 - 2\chi + \chi^2 \right) \((1 - \chi) \) \(d\chi = \int \frac{1 - \chi - 2\chi + 2\chi^2 + \chi^2 - 2\chi}{\chi^2} \)
\(\chi \frac{4}{3} \)
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\(\chi \frac{4}{3} \ e of the $= \int -\chi^{3} + 3\chi^{2} - 3\chi + \eta$ $= \int -\chi^{3} + 3\chi^{2} - 3\chi + \eta$ $= \int -\chi^{3} + 3\chi^{2} - 3\chi$ - 321- 3 + 1.2 - 3) dx = 51-23 + 323 - $-3x^{\frac{1}{3}} + x^{\frac{1}{3}})dx = -3x^{\frac{8}{3}} + 3x^{\frac{1}{3}}$ $-3x^{\frac{2}{3}} + 2x^{\frac{1}{3}})dx = -3x^{\frac{1}{3}} + 3x^{\frac{1}{3}}$ 1636 5 (7- 12) VXVX dx = (2 = x) dx= = S(x = - x =) dx = 4 x = + = + = + (= = + 2 Tx 3 + 4 + C $(\sqrt[4]{2\chi'} - \sqrt[3]{3\chi'})^2 d\chi = \int (2\chi - 2\sqrt[4]{2\chi'} + \sqrt[4]{3\chi'}) d\chi$ 2 V72'. 6. 25 + 35'. 3 x 3 + C = 2 2x - 12 6/72 26 + 3 9 3 2 2 7 6

1638 5 24 + 2 -4 +2 da = SV(22 + 1/2) 2 da = 1643 2 2 4/1 da 2 (1/2 + 25) dx = (n/x) - 1/24+(1/2) 1638 5 22 dx = 5 22+1-1 dx = 5 1+x2 dx = 2) (1 - 1+x2) w/x 2 x - anctez + C 1 $\frac{1690}{1-x^2} \int \frac{x^2}{1-x^2} dx = \int \frac{-(1-x^2-1)}{1-x^2} dx$ (5 - V) = \(\left(-1 + \frac{1}{1-\chi^2} \right) dx = -\chi + \frac{1}{2} \left(n \right) \frac{17t\chi}{1-\chi} \right) + (1644 $\int \frac{d^2x^2}{\alpha^2 + 2\alpha} dx = \frac{1}{2\alpha} \left(\ln \left| \frac{\alpha + \alpha}{\alpha - \alpha} \right| + C \right)$ $\int \frac{\chi^2 + 3}{\chi^2 - 1} dx = \int \frac{\chi^2 + 1 + 4}{\chi^2 - 1} dx = \int \frac{4}{\chi^2 - 1} dx = \int \frac{4}{\chi^2 - 1} dx$ -2+26/1+x/+C 1692 5 V1+x2 + V1-x2 dx = Sty. + \\\ 1 + \(\frac{1}{2}\) dx z aresin x + \(\lambda \lambda \chi \rac{1}{2} + \frac{1}{1} + C July 2 (n x+ Vx2 + a2 1+ C

Contain - 1 - J22+1) dx = ln | x + J22-11 - ln /x + J24 / He L drz = ln | x + vx2 - 1 / + 6 enclose + $\chi^{2} - 1 = \left(\int \frac{1}{\sqrt{\chi^{2} \pm a^{2}}} dx = \frac{\ln 1}{x} + \sqrt{\chi^{2} \pm a^{2}} + C \right)$ - 4 / 1-2 H 1644 \ \(\lambda \chi \rac{2}{2} + 3^{\pi} \right)^2 d\(\alpha \) = \(\lambda \chi \alpha \) \(\lambda \chi \alpha \chi \alpha \) \(\lambda \chi \alpha \chi \a = 5 (4x +26x + 8x) dx = 4x + 26x + 6x + 6 $\int_{\mathbb{R}^{2}} \int_{\mathbb{R}^{2}} \int_{$ $\frac{1645}{5} \int_{0}^{2} \frac{2^{x+1} - 5^{x-1}}{\sqrt{2}} dx = \int_{0}^{2} \left(2\left(\frac{2}{10}\right)^{x} - \frac{1}{5}\left(\frac{5}{0}\right)^{x}\right) dx =$

 $\frac{1646}{(a^{3}+b^{3})} = (a+b)(a^{2}-ab+b^{2}); \quad \int e^{ax} dx = \int (e^{x}+1)(e^{2x}-e^{x}+1) dx$ $= \int (e^{2x}-e^{x}+1) dx = \int (e^{2x}+e^{x}+1) dx$ $= \int (e^{2x}-e^{x}+1) dx = \int (e^{2x}-e^{x}+1) dx$ fs 1647 S (1+ sinx + cos x) dx = Jsinxdx = - cosx+C; Scosxdx = sinx+C th2 = 2 - cosx + sinx + c Ch=x $\frac{1648}{5\sqrt{1-5/h}2x} dx, = \int \sqrt{5/h^2x + (25^2x - 5/h2x)} dx = 0 \le x \le R$ cthz = Susin 2 - 251 h x cos x + cos 2x dx = Susin x - cos x)2 dn= 2 S(sin x - cos x) dx = - cos x - sin x + C Sh2x 1655 1648 Sctg 2 x dx = S(sin2t -1) dx = 1+ 6g2t = (6gx -x +C I (cost -1) obx by to clyt = Sin2 x dx = - c6g x + (;) Scos2x dx 2 bg x +c

1651 Slashx + Bchx)dx = achx + Bshx + C FR FC Schada = shx +C 1652 5 6h2x dx = 5 (1- (h2x) dx= SINAYO th2x=1-1 = x - thx + C John 2 thx + C 1 1653 South 2 x da z 1 Cos 2 - Shakido 15142 - CO32) 4 - sinx +6) 5/2 x = -cthx + c $\frac{1655}{5x+a} \frac{1}{dx} = \left(\frac{t}{2} \approx x+q\right)$ $\frac{1}{2} \frac{1}{2} \frac{1}{2}$ Cn!tl + c = Cn 1xtai + c $\frac{1656}{5(2x-3)} \frac{10}{0} \frac{dx}{2} = \left\{ \frac{t=2x-3}{dx=\frac{1}{2}dt} \right\} = \frac{1}{2} \frac{dt}{2} =$ 165] $\int_{0}^{3} \sqrt{1-3x} dx = \int_{0}^{4} \frac{1}{2} \frac{1-3x}{4} dx = \int_{0}^{4} \frac{1}{2} \frac{1}{4} dx = \int_{0}^{4} \frac{1}{2} d$

 $\frac{1658}{2-5x^{2}} dx = \begin{cases} t^{2} 2 - 5x \\ dx = \frac{1}{5} dt^{2} - \frac{1}{5} dt \end{cases}$ $= -\frac{1}{5} \int \frac{1}{\sqrt{t}} dt = -\frac{1}{5} \int \frac{1}{\sqrt{t}}$ = - \frac{2}{5}\frac{2}{7} + C = \frac{2}{5}\sqrt{5}\chi - 2' + C $\frac{1659}{5(5\chi-2)^{\frac{5}{2}}} dx = -5(5\chi-2)^{-\frac{5}{2}} dx =$ = -1. (2 t - 2) + C = -2 . -1 + C = 5. (2 t - 2) $=\frac{2}{15}$ (5x-2) $\sqrt{5x-2}$ 1660 (-577-2x+x2 dx = 2 2 mun 5 (1-x)-3 dx

Fac / Sudv = uv - Sordu 2-1-24 Sxarctg x dx = du = arcty x du = u'dx = 1 dv = x,dx 2249 4245 2248 2 2248 2274 = (arc tg x). (22) $-\frac{2^2}{2} \cdot \frac{1}{1+x^2} dx =$ z 22 ancbe x 7 \ x 2 . 1 dx = x² anc to x $\frac{1}{2}\int \frac{x^2+7-1}{1+x^2} dx =$ e x² arcbgx = 5 (9 - 1+x2) da = z x 2 arc bg x 2 x + 1 arcty x + C = $=\frac{1}{2}\left(x^2 \operatorname{ancbg} x - x + \operatorname{ancbg} x\right) + C =$ -5 well 15312 archy 53' - V3' + archs V3' - 0 + areby 0) = 一 2 0 年 2 - 531

 $\int \frac{1}{\sqrt{5-4x^2}} dx = \int \frac{1}{\sqrt{4x^2}} dx = \int \frac{1}{\sqrt{5-4x^2}} dx$ $\int \frac{1}{\sqrt{5-4x^2}} dx = \int \frac{1}{\sqrt{5-4x^2}} dx$ $= -\chi \sqrt{5-4\chi}$ $= -\chi \sqrt{5-4\chi}$ $\frac{1}{2} \int \sqrt{5-4x'} \, dx = \frac{1}{2} x \sqrt{5-4x'} + \frac{7}{2} \cdot \frac{2}{3} \left(5-4x\right)^{\frac{3}{2}}$ = = = = 1 = 15 - 4x13 + (= - 4 /2 to 2 (= 155-41 + 125(5-413) - (-\frac{1}{2} (-1) \sqrt{5+49} - \frac{1}{2} \frac{3}{5} + \frac{49}{12} \frac{3}{5} + \frac{1}{2} \frac{3}{5} + \frac{1 マー-1 - 1 - 3 + 27 マ 2 3 /

