Sygungum 4.5. 8279. 5 x 5 x = 5 x = 5 x = 1 x = 2 = -2 x "2C= - 3x +C Spolepus: (- = -2. (x") = -2. (x") = -2. (-2).x 8.450 $\int \frac{dx}{x^2+3} = \int \frac{dx}{x^2+55^2} = \frac{1}{55}$ arely $\frac{x}{55} + c$ Troberna: (\$\frac{1}{15}\$ \cdot \text{ avety \$\frac{1}{15}\$}) = \frac{1}{15} \cdot \text{ (avety \$\frac{1}{15}\$)} = \frac{1}{15} \cdot \text{ (\$\frac{1}{15}\$)} \cdot \text{ (\$\frac{1}{15}\$)} \cdot \text{ (\$\frac{1}{15} 2.15e. 5 5 dx = 55 dx = 65 t 5 105 C Spolenua: (5) = 5 ens = 5 = 5x 2 Ji - x = 54 (1 - x) = 54-x2

3.135
$$\int \frac{dx}{\sqrt{x^2-x^2}} = \int \frac{dx}{\sqrt{x^2-$$

8177 JX -3 8x -1 dx = 5 5xdx - 5 5xx dx = = \ \frac{x'''}{x'''} dx - 3 \int \frac{x'''}{x'''} dx + \int \ x'''' dx = \int x'''' dx - 5 \int x''' dx 1 x dx = 5/4 - 5 = 21/10 + 21/4 + C = 4 x 6/4 - 60 x 1,40 [(0,7 x "+ 0,2 . (0,5)")dx = Joax "d+ Jo2.0,5" dx= = 9 + 0,2.0,6 + c 8 141 S (5 shx - 7chx++)dx = 5 S shx dx - 7 Schx dx + S 1dx = = Schx - 7 shx + x + C 8.1.42 S (x2-1) (5x+4)dx = S (x25x + 4x2 - 5x -4)dx= Jx512 dx + 45x3- Sxd- S4dx = x2 + 4. x3 - x12 - 4x = = 2 x'5x' + 4x5 - 2x5x - 4x+c

8 2 43 5 Jx250 dx = 5 Jx250 - 5 dx = 2 2 1 x + 1x2 = 11 + x=0 8144 S (X) dx = 5 5x - 9 5x 25 - 125 dx = = 5 \frac{1}{x^2} dx - 15 \frac{1}{x^2} dx + 75 \frac{5}{x^2} dx - 105 \frac{1}{x^2} = \frac{1}{x^2} dx - 15 \frac{1}{x^2} dx + 25 \ -115 x dx = - 5x + x - x5x - 1x + C 2.145 Sin 7xdx=[7x=t=>dt=(7x)'xdx= 7dx=>dx= 2dt]= 8.1.46 \ 552x-8 dx = \ (2x-8) 4x = [\f(2x+6-8) = \frac{1}{2} \tau(2x-8)]= = \frac{1}{2}\left(\frac{(2x-8)^45}{675}\right) \left(=\frac{1}{2}\left(\frac{5(2x-3)^45}{6}\right) \left(=\frac{5(2x-8)^65}{6}\right) \right(=\frac{5(2x-8)^65}{6}\right) \ri B. L.47. $\int (1-4x)^{2007} dx = -4 \frac{(1-4x)^{2007}}{2002} + C$ 8 148. 5 dx = [dx = [+=3x = 1x = 1 ; dx = (3) dt = idt] = 11/3 2+ = 5 savily 5 + C = 3 savily 5 + C 8 = 49. \[\left \left \forall \left \forall \forall \left \forall \fo 4 = - 18 (6x+12)3 + C

= 5

81.

8.

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8

11

-6 1150 5 15x1 +1 = 5 (5x12.12 = [+=5x=>dx=5d+] = 3151 53 dx = - 11 2 1 2 1 1 2 1 C 3.152. 5 Jux2-1 = 55 (2x12-12) = [2x=t; x= 2=> d= 2 dt] = July = 1 = 1 = 1 = 1 + C = 1 en | 2x+ Jux - 1 | 3.1.53. Sin 3xdx = 5 1- 656 x dx = 5 1dx - 5 2036 x dx= = 1 Sdx - 2 Sws (6x+0) dx = 1x - 12 5: n6x + C 3154 Sws28xdx = 5 = 2 Sdx + 25 cos 16xdx = = 1 × = 1 005 16 × +C 8.155. Sty2xdx = Storx dx = Storx dx = Storx dx = Storx dx - Sdx = = 6gx - x - C 5

Biss Strat dx = S 4xdx + S x-5 = Et=(x-5)=>d+-(x-5)= =>de=dx; x=1.5] = 45 = 45 = = = 4 (5 tdt - 5 dt) + 5 dt = 45dt - 205 dt - 5= = KB 4x .12 en1x-51+C 8.1.52. [[3 tgx -2 ctgx] dx = [3 tg2x dx - [12 tgx ctgxdx +] redigina +45 sin'x dx = 95 tos'x dx - 125dx +45 sin'x dx = = 9 5 05°x -9 5 dx -12 5 dx + 4 5 5in2x - 4 5 dx = = 9 tgx - 4 ctgx - 25 x + C 8.1.68. \[\frac{4\sqrt{1-x^2} + 3x^2}{x^2 - 1} dx = \int \frac{4\sqrt{1-x^2}}{x^2 - 1} dx + \int \frac{3x^2}{x^2 - 1} dx = =4 \((1-x2) dx +3 \(\frac{x^2-1+2}{x^2-1} dx = -4 \) \(\frac{1}{51-x^2} dx + 3 \) \(\frac{x^2-1+2}{x^2-1} dx = -4 \) +35 x2-1 = - havisin x +3x + 2 en | x11 | + C

8.155 Sin'x cos'x = 5 cos'x - sin'x dx = 5 dx - 5 dx = 5 cos'x = = - ctq x - tqx +C 8 1.60 5 Sin 2x dx = 5 25 lmx co3x dx = 25 slnxdx = - 2009 x + C Jygungani H. D. Jacom 2. 8253. Sws(6x+4) dx = = = sin (6x+1) + (8.234 5 3 5(5x-2) = 5 16x-27 dx = 5 -13 + C = = - 3 5 ysx-2 + C 8.235. Storx = [dax = + => d+= tosx => dx = toxxd+]= = S SF cosixd+ = SFd+ = 4 3/2 + c = 2+1/2 + C = = 2 Jan + C