Tema & (Monte Carles) ONUTU RADU $\int_{0}^{\infty} x^{6} = 3 \times dx = 1 \int_{0}^{\infty} \left(\frac{t}{3}\right)^{6} = t$ 3dx = dt $\frac{1}{37} = \frac{1}{37} = \frac{1}{37}$ 20, 32 \$\frac{1}{5} \times \frac{1}{5} 2 x d = 2 d 6 3 (x-x2) 5 dx 2 3 (x (1-x)) dx 2 3 (6,6) = 3) 17(6). 17(6) 5!. 5! X. X KB 1

19(12) 19! 8.4. 7.8.9. 630 M(12) 4 10 11 0,0003 26 => 122090 x = J6

= \(\frac{5}{2}\) = \(\frac{3}{2}\) = \(\frac{3}{2}\) = \(\frac{1}{2}\) = \(\frac{1}{2}\) = \(\frac{1}{2}\) = \(\frac{1}{2}\) = \(\frac{3}{2}\) \(\frac{1}{2}\) = \(\frac{3}{2}\) = \(\frac{1}{2}\) = \(\frac{1}\) = \(\frac{1}{2}\) = \(\frac{1}{2}\) = \(\frac{1}{2}\) $\int_{0}^{1} \int_{X-\lambda \epsilon} dx = \int_{0}^{1} \left(\chi(1-\lambda \epsilon) \right)^{\frac{1}{2}} dx = B\left(\frac{3}{2}, \frac{3}{2}\right)$ 9 - 4 2 4 20,39 $\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1$ = 11 = 2 h ~ 6,29 $\int_{0}^{2} x^{2} \int_{0}^{4-x^{2}} dx = \int_{0}^{2} x^{2} \int_{0}^{4(1-x^{2})} dx = 2 \cdot \int_{0}^{2} 2 \int_{0}^{4(1-t)} dt$ x + x=0=>(=0 x2=16 $\frac{x}{2}dx = 0$ $\Gamma(\frac{3}{2}).\Gamma(\frac{3}{2})$ $= \int_{8}^{1} 8 \cdot t^{\frac{1}{2}} \cdot (1-t)^{\frac{1}{2}} dt = 8 \beta(\frac{3}{2}, \frac{3}{2}) = 8.$ $\Gamma(3)$ 28. = 1 (1) . 1 . [(1)] - 4 . 1 . 4 = 11 = 3,11 26

ALTOR E Jon & Jx. los xdx en 2 = 6 x = 0 = 5 t = - 20; x = 1 = 5 t = 1 1 dx 2 dt hx 2 t => > x = et 1 dx 20 Jet to dt 2 t = - 11 -> t - - 00 => 4 = 00 2dt: du tionsuro 11) sine = t cosxdx = dt = -1 · \(\(\text{\(}\)\) = -1 · \(\text{\(}\)\) = -1 · \(\text{\(}\)\) = -1 · \(\text{\(}\)\) = -1 · \(\text{\(}\)\) $\int_{1}^{3} \int_{3-4}^{4} (x-1) dx = \int_{1}^{3} \int_{-8}^{4} \int_{-3}^{4} dx$ 9) 2 tolt = du 3 J-(2-4x+3) J-(x-4x+3) V-(x2-4x41) +1 12) S X 516-1 V-(16-2)2+1 J 1 dt = aresin t 1 = aresin 1 -1 + 4 - 4 ~ 3,14 6

of Jan 1 dx = 5 J-lnx dx = 5 x e . J-t dt =

ln x = 6=36=e

1 dx = dt x = 1 => t-0

A dx = dt x = 1 => t-0

A dx = dt x = 1 => t-0

A dx = dt x = 1 => t-0 J-e Judu-Sendu-[(3)=1.1(2) 1) S sin * cos * dx = S t . (1-t2) dt and to be on to costdo 2 dt 00 - 4 > to 2 tolt : du $= \int \frac{1}{2} \int u \cdot (1-u)^2 du = \int \frac{1}{2} B(2,3) = \int \frac{1}{2} \Gamma(2) \cdot \Gamma(3)$ 12) S x 6 J16-x2 dx = S x 6 J16(1- 25) dx = 2 t x = 0 = 16) 16 x = -(-) t = 1 2 dx = dt sh(-1) = 8 S (-456) 5. 4 J1-t dt $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{2}$ $\frac{5}{2}$ $\frac{5}{2}$ $\frac{1}{2}$ $\frac{1}$

=128. 2128. 5.3.4. = 54.4 = 1280 4 = 4021,23 15) $\frac{x}{1+x^{\frac{1}{2}}}dx=x=\frac{x}{\sqrt{8}}=\frac{1}{\sqrt{11}}$ 00 Jx dx 2 1 tide 2 acts. 2×d2/d6 -xe2 +276-9 dx x -2x+12 t 2-5 x -2x +4- t=0 16) 124-16+56 2x - 2dx - 26 x=1=56-3 x= 2 (= x= x = 1+16-3 olt = 3 2+2/6-3-2 t-324 00 dbzda 1 - (4+3) du t23=34:0 E-2000 4280 [2,3] X [0 1. 54 . 1. 54 -1 Sure edu - 1 Sure du = 4021,23 15) \$ 1 0 3 0x (1-0x) dx Ed On x 2 t x = 1 = 5 t = 0 _ dx 2 dt x = 2 = 5 t = 1 1 t3 (1-t) dt=B(4,5)= [1(4). [1(5)]= 16) SS (82 + y2 dx dy D= { (x,y) & 1R2 | 4 < x2 + y2 < 9, y ≥0} (y=1 xn 0 06(0, 2) + 16-3 dt - SS JN. N drdo = S = N2 dx = = 3 3 3 19 - ~ [2,3] x [0, 4]





