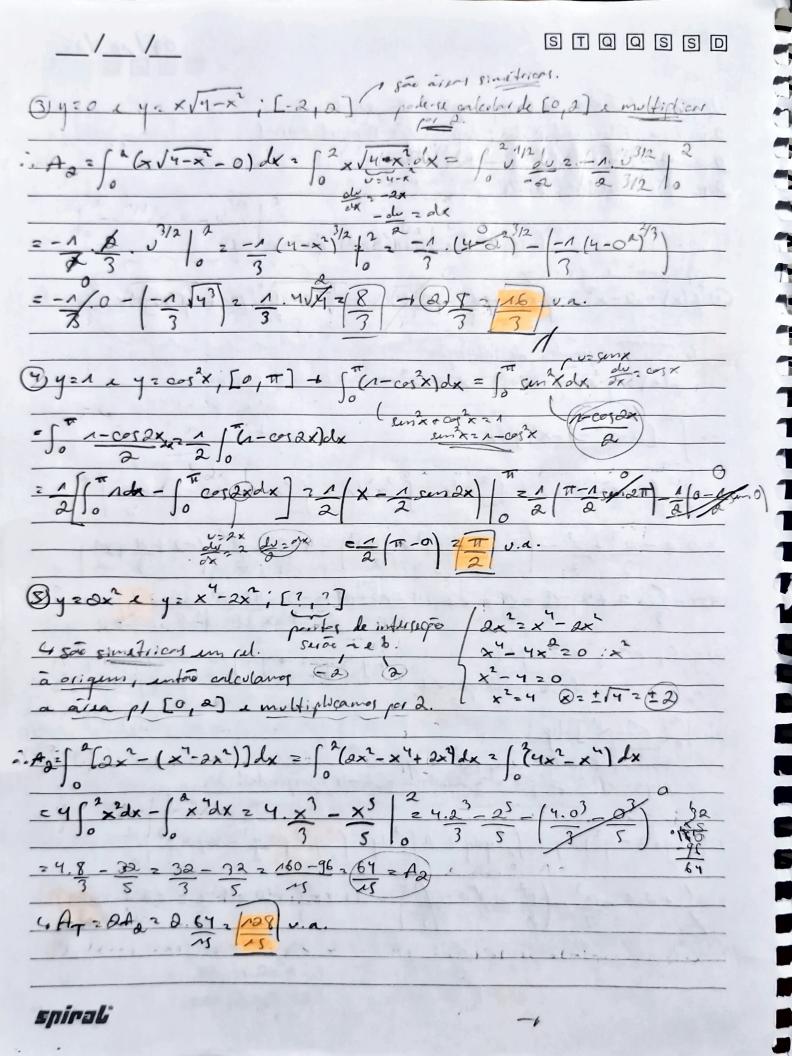
UNiCAP - Ciencia la Computação - 2º período Disciplina: Elementos de integralização Computacional Docume: Tolo Fidel Doguete: Guillume harri -: [ [ 0-x - (-x )] dx  $\frac{20.2-3^{3}+2^{2}-\left(2.-1-\left(-1\right)^{3}+\left(-1\right)^{2}\right)}{3}\frac{24-9+12}{3}\left(72+11+11\right)$ (no grafice) [ pegames or jenção + à diseita - a mais à esqueda! = (2(y+0-y2) dy = (2ydy + 2 (2y - (2y2dy 2y2 + 2y - y3)2 = 2+ +2.2 -2 - (+ +2.0 - 3) = 2+4-8 -0=6-8= M-8=100 7 3 3 3 3 spiral"



\_\_/\_/\_ S T Q Q S S D (6) x = 12y2 - 12y2 - 2y; [0/1] ( ) [ (2y2-12y) ) dy = [ (2y2-12y2-12y2-2y2+2y) dy = ( (-12y3+10y2+2y) dy = -12 [ "y2+ 10 [ "y2y+ 2 [ "ydy 2-p3. 1" + 10 y3 + dy2 | 1 2-3 y4 + 10 y) + y2 | 1  $\frac{2-3}{3}$   $\frac{1}{3}$  +  $\frac{10}{3}$  +  $\frac{1}{3}$  -  $\left(\frac{-3.0}{3}$  +  $\frac{10}{3}$  +  $\frac{3}{3}$  +  $\frac{10}{3}$  +  $\frac{1}{3}$  +  $\frac{1}{3}$  -  $\frac{9+10+1}{3}$ ( yzx, yzx x yzx 4 inters. entre y=12 y=x2 i 2? Dyzx a yzx p/ [0,1) a Dyzla yzx p/ [1,2] D (x-x2) dx = [xdx-1 [xdx2x2-1 x] = x2 - x] = x2 - x3 | 2x2-x3 |  $\frac{26x^{2}-x^{3}}{12}\begin{vmatrix} 1 & 6.1^{2}-1^{3}-6.0^{2}6^{3} \end{vmatrix} = A_{1}$ (1) \( \frac{2}{4} \) dx = \( \frac{2}{4} \) dx = \( \frac{2}{4} \) dx = \( \frac{2}{4} \) \( \frac{2} :. AT 2 As + A 2/10 2 5 v.a (I) 42 x2-4 x 42 -x2-2x p/ (-3, (

pla figura, [-3,-2] à a airea

+ Spiral

STQQSSD € y=-x2-2x e y=x2-4 p1 (-2 1) curvay (x70) (x2-4-(-x2-2x)) dx = (-2 (x2-4+x2+2x) dx = (2x2+2x-4) dx  $=\frac{2(-2)^{3}+(-2)^{2}-4(-2)-\left(2(-3)^{3}+(-3)^{2}-4(-3)\right)}{3}$  $\frac{22.-8+4+8-2.-27+9+12}{3}$   $\frac{2-16+12-[-54+21]}{3}$   $\frac{2-16+12+54}{3}$   $\frac{21}{3}$ 254-16+36-63 = [11] z(An) A2 = [-x^-2x-(x^-4)] dx = [-x^-2x-x+4) dx = [-2x^-2x+4] dx  $= -2 \int_{-2}^{2} \frac{1}{x^{2}} dx - 2 \int_{-2}^{2} \frac{1}{x^{2}} dx + 4 \int_{-2}^{2} \frac{1}{3} - 2 + 4 \int_{-2}^{3} \frac{1}{3} dx + 4 \int_{-2}^{2} \frac{1}{3} dx + 4 \int_$  $\frac{2-2}{3}\frac{1^{2}-1^{2}+4-\left(-2,\left(-2\right)^{2}-\left(-2\right)^{2}+4\left(-2\right)}{3}\frac{2-2-1+4-\left(16-4-8\right)}{3}$ 2-2+3-16+122-2+9-16+26 - 27 2 A2 5- A-2An+A, 2 M + 27 2/38 V.a (9) y=4-x2, x2-2, x23, y2-x+2 [[-2,3] Coscoon: (1) y'2-x+2, y"24-x2; [-2,1] (x+1)(x-2)=0 Ty y'2 -x+2, y"2-x+2; [-1,2] (X'2-1) [-d,-1] 4 DA 2 [ [-x+2-(4-x2)] dx = [-x+2-4+x7dx = [x2-x-2)dx  $= \int_{-2}^{2} \frac{1}{x^{2}} dx - 2 \int_{-2}^{2} \frac{1}{x^{2}} dx = 2 \int_{-2}^{2} \frac{1}{x^{2}} dx - 2 \int_$ 

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STQQSSD

( 1 2 2 (4-x2-(-x+2)) dx = (2(4-x2+x-2)dx 2 (2(-x2+x+2)dx  $= -\int_{-1}^{2} x dx + 2\int_{-1}^{2} dx = -\frac{x^{3}}{3} + \frac{x^{2}}{3} + \frac{3}{3} + \frac{3}{3}$ 2 Q7 2 9 2 A2 (-x+a-(4-x2))dx=(3(-x+a-4+x2)dx=(3(x2-x-2)dx  $= \int_{2}^{3} x^{2} dx - \int_{2}^{3} x dx - 2 \int_{2}^{3} dx = \frac{x^{3} - x^{2} - 2x}{3} = \frac{3^{2} - 3^{2} - 2 \cdot 3 - \left(\frac{2^{3} - 2^{3}}{3} - \frac{2^{3} - 2^{3}}{2} - 2 \cdot 3 - \left(\frac{2^{3} - 2^{3}}{3} - \frac{2^{3} - 2^{3}}{2} - 2 \cdot 3 - \frac{2^{3} - 2^{3}}{3} - 2 \cdot$ (1) x=13-4; (-1,1) - [1-4,-4]-43-4]/4= [(1-4,-4,+1)dy = [(-y'-y'+y+1) dy 2 - [y'dy-[y']dy + [ydy + [dy 2 -y'] - y'+y'] + y ]  $\frac{2-15-17+1}{4}+1-\left(-\frac{(-1)^{5}-(-1)^{4}+(-1)^{2}-1}{5}-\frac{1}{5}+\frac{1}{4}+1-\left(\frac{1}{5}-\frac{1}{4}+1-\frac{1}{5}\right)$ 2-1-f+f+1-1+f-f+12-2+22-2+10-8 v.a.

(2) 42-1, 421, X24-2 e X2e) [-1,1]
(2) y2-1, y21, x2 y²-2 e x2e³, [-1,1] er [[-1] - [y²-2]] dy2 [[-1] - y²+2) dy 2 [2] dy - [y²dy + 2 [2] dy
$\frac{24-\frac{1}{3}+24}{3}+24-\frac{1}{3}+2-\frac{1}{3}+2(-1)$
$\frac{2e-1+2-1}{3}+2\frac{2e-2-1}{3}+4\frac{2e-2+10}{3}v.a.$
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spiral <sup>a</sup>