

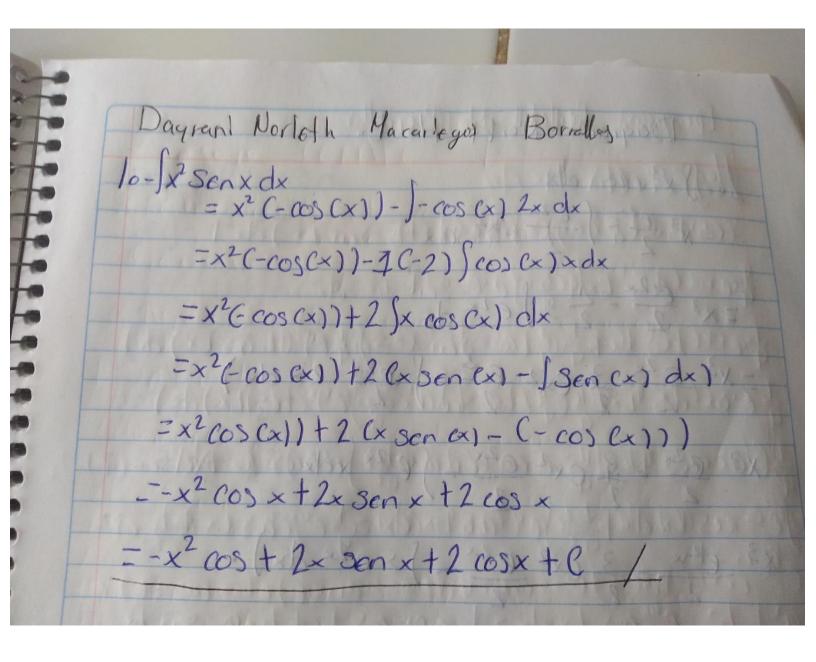
UDS Universidad Del Sureste

6^{to} Cuatrimestre Bachillerato Administración De Recursos Humanos

MATEMATICA APLICADA

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Dayrani Nort Ho Bo 20- 1x3 ez dx = x3 e2x - Se2x 3x2 dx =x3 =2x - 1 3 | e2x dx - x3 e2x 3 cx2 e2x - (e2x 2x dx) $x^3 e^{2x} = \frac{3}{1} ex^2 e^{2x} - \int e^{2x} x dx$ $x^3 e^2 \times 3 ex^2 e^2 \times 5 \times e^2 \times dx$ $x^3 = \frac{e^{2x}}{2} - \frac{3}{2} = cx^2 = \frac{e^{2x}}{2} - cx = \frac{e^{2x}}{2} \int \frac{e^{2x}}{2} dx$ $x^3 \frac{e^{2x}}{2} - \frac{3}{2} \left(x^2 \frac{e^{2x}}{2} - \frac{1}{2} \int e^{2x} dx\right)$ $x^{3} \frac{e^{2x}}{2} - \frac{3}{2} e^{x^{2}} \frac{e^{2x}}{2} - (x \frac{e^{2x}}{2} - \frac{1}{2}(\frac{1}{2})e^{2x})$ $\frac{x^3 e^{2x}}{2} - \frac{3x^2 e^{2x} - 3x e^{x^2}}{2} = \frac{3e^{2x}}{8}$ $= x^{3}e^{2x} - 3x^{2}e^{2x} - 3xe^{x2} - 3e^{2x} + C$

Dayrani Norleth Hol Bornles 30-5x2/[1-x)dx = \- 12 VE + 2E VF - VE d+ ∫- € 2 (t½) + 2 € (€ ½) - € ½ d+ J-f2(t2)+2+(f2)-62d+ J-65+263-62d+ - St = d++ S2 t 3 dt - St = dt = 2+3 VE + HE2 VE _ 2tVt -201-x)3 (VI-x) + M(1-x2 (VI-x - 201-x) (VI-x 2 VI-x C1-3x +3x2 -x3) + 4VI-x C1-2x+x2) - 2 C1-x) (VI-x) 2 /1-x C1-3x +3x2-3x + H/T-x C1-2x+x2) - 2 C1-x CVI-x)+C

Dayran: Norleth Mo Borrally He-seax cos bx dx Cos bx (a eax) - f a eax (- b sen bx) dx 1 q e ax cos bx + b fe ax son bx dx qeax cos bx + & G eax sen bx - Sqeax (b cos bx) dx) q e ax cos bx+ b (= eax Sen bx-b Jeax cos bx) dx) Teax cos bx + b eax sen bx b2 feax cos bx xd - Jeax cos bx elx + bz Jeax cos bx dx z jeax cos bx + b eax at be sen by a to be a sen by Seax cos bxdx = a2 (1 eax cos bx+b eax sen bx) Seax cos bx dx = 9 eax cos bx + b eax sen bx Jean Cos bx dx = 9 eax cos bx + b eax Son bx + C Dayrant Norloth Mo B So Sen3x dx (Sen2x senx dx SCI-cos2x) Sen(x) dx S(Sen(x)-cos2x Sen(x)) dx Sen Widx - Jos 2x Sen (x) dx - Cos (x) + Scos2x C-Sen(x) - (0) (x) + (0) 3x 60-Sen 3x cos 2x dx St Csen sxt Senx)dx 2 Sen Sx + Sen x dx 1 Son 5x dx + Ssen xdx 1-(-cos sx - cos x) _ Cos Sx - Cos x (0) Sx - $\frac{\cos x + c}{2}$

Dayrani Mo Bornells. 10- Son clax) dx Sen Ct) et- Set cos ct) dt Sen (t) et - scos (t) et d+ Sen (t) et-Cos (t) et-Jet (- Sen (t) dt) Senct) et - (cos et) et + Se+ sence) dt) let sen (t) dt = Sen (t) et - cos (t) et t) etsen (t)) et sen (t) dt = Sen (t) et - cost et - fet sen (t) dt Ses (t) det let sence) dt = sence) et -cos (t) et 2 let Sen Ct) dt= Sen Ct) et-cos Ct) et Jet sen (E) de - Senct) et - cos (f) et Sencinex) le in car _ coscinex) le in ex) - Sen Clncx) x - cos clncx) 1x + C

WELLETTERRETTERRETTER Dayrand No M. B. So-Jx2 In x dx SIn exxx2 dx $\ln(x) \times \frac{3}{3} - \int \frac{x^3}{3} - \frac{1}{y} dx$ Incx) x3 - 1x2 dx In (x) x3 - 1 fx2 dx In (x) x2 - 1 (x2) $\frac{\ln(x)x^3-x^3}{3} = \frac{\ln(x)x^3-x^3+C}{9}$ 10.- In (x2) cos (x) dx In (x2) Sen (x) - Sen (x) 2 1 dx In(x1) Sen(x)-2) sen (x) 1 dx In Cx2) Sen Cx) -2) sen Cx) dx In (x2) sen (x) In (x2) sen ex 1+C