

UDS Universidad Del Sureste

6^{to} Cuatrimestre Bachillerato Administración De Recursos Humanos

MATEMATICA APLICADA

Profesor: Ojeda Trujillo Juan José

Alumna: Dayrani Norleth Mazariegos Borrallas

EXAMEN FINAL

Dayran: Norleth Hazartys Bornlos 7 -- Ser x dx 51-cos (2x) dx $-\frac{1}{2}\int_{-2}^{2} 2 - \cos(2x) dx$ = 1 1 dx - 1 cos (2x) dx = 1 (x - Sen (2x) 1 x - Sen (2x) - 1 x - Sen (2x) + C

Dayman Norleth Harantys Bornalas 20- Sen3 (3) dx 13 sen (+)3 d+ 3) sen (+13 d+ 3) Sen C+)2 Sen C+) d+ 3 -1 + 02 du 3 (-) I du + [u2 du = 3 (- u + - 43) = 3 (- cos c+) + eos c+)3 3 (- cos (3) + cos (3)3 -3 cos (x) + (os (x))3

-3 cos (=) + cos 3 (=)

Dayran No M. B.

30- Sen & + cos 2x dx

 $\int 2dx = x = x + C$

Ho- S COD3 (2x) dx

53 cos (+)3 d+ 3 seus (+)3 d+

3 5 cos C+F cos C+) d+

3 / 1 du - Su2 du

 $=\frac{3}{2}\left(\operatorname{Sen}(t)-\frac{\operatorname{Jen}(t)^{3}}{3}\right)$

 $=\frac{3}{2}\left(\operatorname{Sen}\left(\frac{2x}{3}\right)-\operatorname{Sen}\left(\frac{2x}{3}\right)^{3}\right)$

= 3 sen (2x) - Sen3 (2x) + C

Durans No HoB. 50- Sec 4 2x dx Sec C+)H d+ 1 Sec C+) 1 d+ = 1 (\$ Sec (+)2 tan (+) + 3 Sec (+)2 d+) = \frac{1}{3} Sec C+)2 tan C+) + \frac{2}{3} tan C+) = 1 (Sec (2x) 2 tan (2x) + 2 tan (2x) = Sen (2x) + Sen (2x) + C. 6'cos3 (2x) 3 cos (2x) + C.

Dayrand No Mo B. 60- (C2x2-3x+3)3 dx (8x6-125x3+27-60x5+36x4+150x4+225x2+54x2+135x-180x30x (8x6-305x3+27-60x5+186 x7+274x2-135xdx Sprax - 5305 x3 dx + 527 dx - 160 x5 dx + 5186 x dx + 5279 x dx - 5 135 xdx $= 8x^{7} - 305x^{4} + 27x - 10x^{6} + 186x^{5} + 93x^{3} - 135x^{2} + C$ 70- Cx3+ Sx2-H dx 1 x3 + 5x2 - 4 dx 1x+5-4 dx [xdx] Sxdx- St dx =x2+Sx+++C

Daymon Norleth Harmeys Borndls.

8.
$$\int \frac{x^2}{4\sqrt{x^3+2}} dx$$
 $\frac{1}{4} \int \frac{x^2}{\sqrt{x^3+2}} dx$
 $\frac{1}{4} \left(\frac{2}{3}+\right)$
 $\frac{1}{$