

NOMBRE DEL ALUMNO: Mauricio Castillo Ozuna

NOMBRE DEL MAESTRO: Juan José Ojeda Trujillo

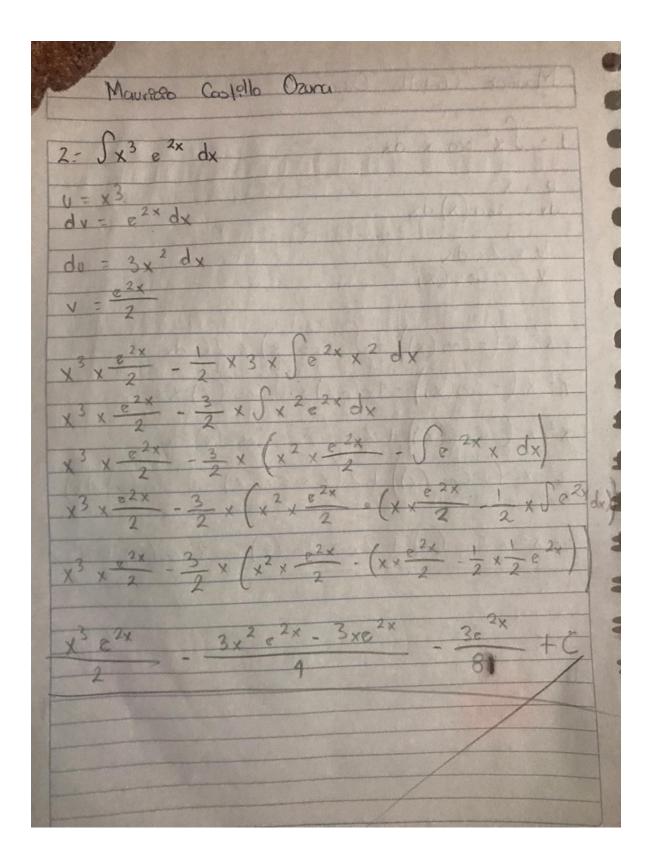
NOMBRE DEL TRABAJO: Examen III unidad

MATERIA: Matemática Aplicada

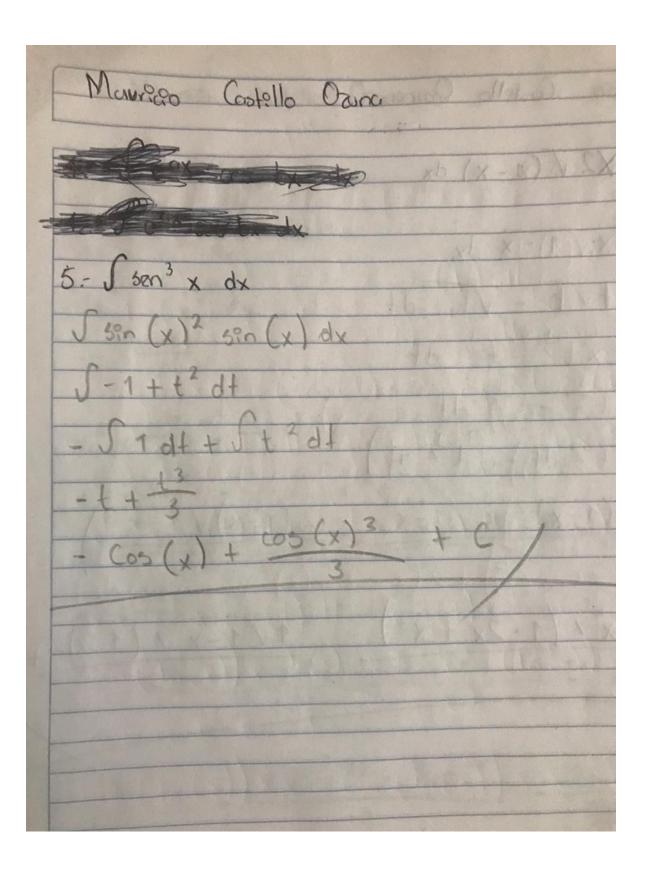
GRADO: Sexto Cuatrimestre

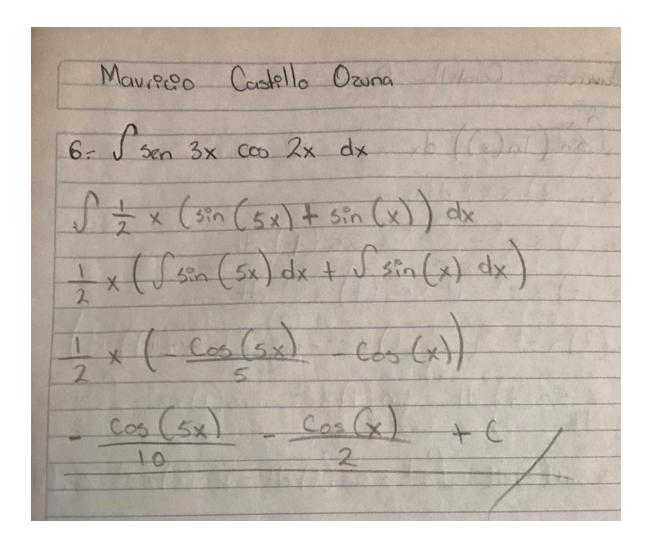
GRUPO: Único

Maureo Castello Ozuna 1 - Sx2 sen x dx $u = x^2$ dx = sen(x) dxdv = 2x dx v = - Cos(x) x2 x (-cos(x)) - J-cos(x) x 2x dx x2 x (-cos(x))-1x(-2) x S (os (x) xxdx x2 x (- cos(x)) + 2 x S x + cos (x) dx x2 x (- (00 (x)) + 2 (x x son (x) - Son (x) dx) - x2 x Cos (x) + 2x x son (x) + 2 cos(x) +



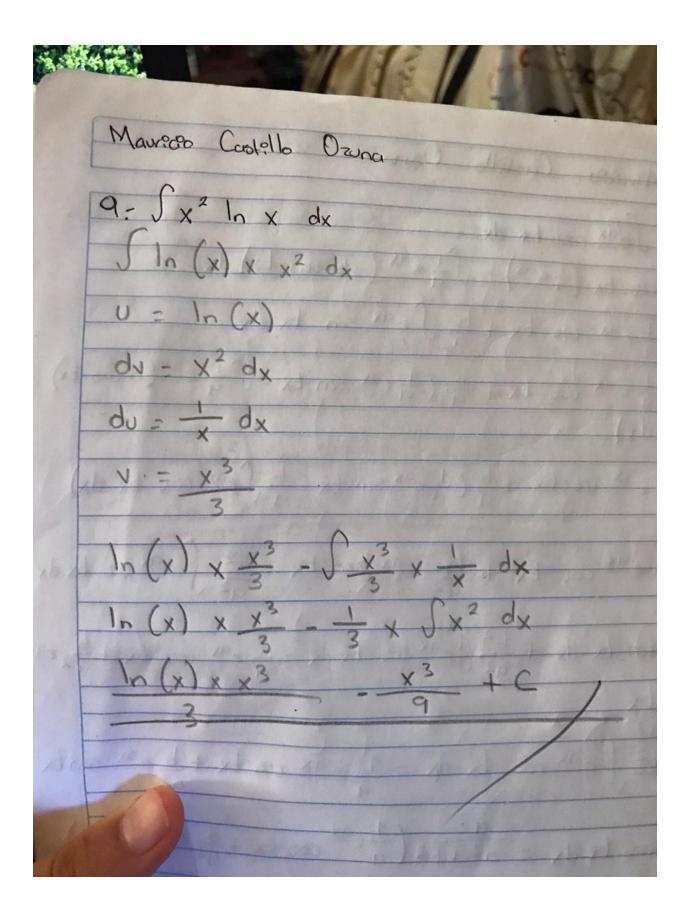
Maurica Castello Ozura 3- Sx2 V(1-x) dx 2 x S x / 1 - x dx 2x5+/+ - /+ d+ 2x Stxt= - + 2 dt 2 x St= - += df 2 (St= 2 dt - St= dt) 4/1-x x (1-2x + x2) _ 4/1-x x (1-x) + Marios Castalo Oana 4. Jeax cos bx dx cos bx (= eax) - Sigax (-b sen bx) dx 1 eax cos bx + b Jeax sen bx dx 1 eax cos bx + b (1 eax son bx - Ja eax (b cos bx) 1 eax cos bx + b (1 eax sen bx - b feax cos bx dx) 1 eax cos bx + b eax sen bx - b2 feax cos bx dx Jeax cos bx dx + 62 Jeax cos bx dx = 1 eax cos bx + 6 a2 + 62 feax cos bx dx = 1 e ax cos bx + b eax son bx Je ax cos bx dx = a2 + 62 (q ex cos bx + 6 eax sen bx) Jeax cos bx dx = 2 02 1 00 00 bx + 12 1 02 cax con bx





Maureceo Castello Ozuna 7- Son (In(x)) dx 500 (+) xet d+ 500 (t) x et - Set x cos (+) d 500 (+) xet - 1 cos (+) xet dt Son(t) xet - (cos(t)xet - Setx (-son(t) + x sin (+) d+ = sin (+) xet - Cos(+) xet - Jetx sin Jet x sin (t) dt + Jet x sin (t) dt = sin(t) xet - cos 2 x 1 8 t x sen (+) d+ = sen (+) xet - con (+) xet sin (In(x)) x e In(x) cos (In(x)) x e In(x) 590 (10(x)) x x - (00 (10(x)) x x + (

Marvisco Coatello Ozura 8.- Sx2 In x dx Jin (x) x x2 dx U= In(x) $dv = x^2 dx$ $dv = \frac{1}{x} dx$ V. = x3 1 (x) x x3 - x3



Maurego Castello Dana 10.- In x2 cos x dx Jin x2 cos x dx In (x2) sen(x) - Sen(x) 2 + dx