## NAME: ALONYENU TREASURE AGBENU-OWO

## **DEPARTMENT: CIVIL ENGINEERING**

## MARTIC NUMBER: 19/ENG03/005

## **MAT 104 ASSIGNMENT**

Alongenne Treasure Agbernioun 1 Civil Engineexing 19/ENG03/005 MAT 104 Assignment 1= 210 (6/22) 1 1et 11 = 6/2 ---- 0 Ŋ 4 = sin 2 sin (1+ AL - BINA AU) 百百百 AMON SINU ALL sin . sin NU 24 + AU 2 005 2 AL sin 20 + DU = 2 cos 2 2 2 Du/2 AU · \* = cast qut AU SIM Du 2 Du NU/2 1/2 · bim sin 24+ACL cas bin 12mg Su/ ALL-XO DU 2 • • = cas 11 del Lu From equation (); 2=6/22 u + Au = 6 (n+Dr 2 U + DU = 6 n2 + 2x (3x) + (bx)2  $\frac{6}{n^2 + 2n(\Delta x) + (\Delta x)^2}$ Du = 6 2 x2

· . . . -12x (Dx) - 6 (Dx)2 224+223(Ax)+22(Ax)2 SAL I E N = - 12x - 6(bx) Du 24 22 47 -12x - 6 (Ax lim sam Ne 4 Ar A ۰. dru = - 12 dr ros die = die 7 du da da dx 3 du = cosze x -12 1 Jz. P = -12casu 703 Putting the value of 2 back E M ... dy = -12 cos ( 6/22) 8.3 703 da 5 3  $n = 4t^3 - t^2, y = t^4 + 2t^2$ dn = 12t^2 - 2t, dn = (12t^2 - 2b)dt 1 1 db let A sepsement the ase  $\begin{array}{rcl} R &= & \ln q \, dx \\ A &= & \int_{3}^{3} \left( t^{0} + 2t^{2} \right) \left( pt^{2} - 2t \right) \, dt \\ \hline & & & \\ \hline & & \\ R &= & \int_{1}^{5} \left( 1 pt^{6} - 2t^{5} + 24t^{4} - 4t^{5} \right) \, dt \\ = & & \\ \end{array}$ --1 + C 3 5 7

12 - 1 + 24 - 1 26244 - 243 + 5832 -81 -5 3 7 5 7 544 160704 105 35 · A = 4586.36 squarts  $u = t^{4} + 2t^{2}$ n= 453- 5ª 33 EL EL du du da da db = 4ts - 4t du da 18+2-26 dt = dre dr 1252-21 46 = 4t3 - 4t . 14 125-26 = 463-46 du 122-26 J = 46(t2-1 26 (66-1 (i) dy = 2(+2-1 B 6t - 1