ALONYENU TREASURE CIVIL ENGINEERING 19/ENG03/005 MAT 104 ASSIGNMENT

Treasure Agbenu-ouc Alonyenu Engineexind )4 Assignment 221 31 2) 21 22-4 2/2 36 ntl 22 2)1/2 4 2 de 2) 3 nti 2/2 2 = 3eksin2k 长频 12-5/2 + In sin2K nu 5/2 × 1/2 3ek)+ COS24 4 5/2 30 sin2K U 5/2 + COS2K de 3 0 dr sin2K K 5/2 5/2 + c0.32K 4 K 5/2 sin2K dn

1 + cos2k - 5/2 kt/2 - sinak Kt/2  $\frac{dy}{dx} = \frac{3e^{k}\sin 2k}{k^{5/2}}$ Integration [4sec<sup>2</sup>(3m+ = 3m + 1; du 3 4 sec2u du 4sec2U. 3 3 4tanutc = 4tanu + C = 4tan (3m+) ) + c3 (26(362-1) 1/2 dt let 2 2 3 t2i du = 6t i. db = du db 6t  $= \int 2t \cdot u^{1/2} \cdot du = \int u^{1/2} du$   $= \int u^{1/2} \cdot du = \int u^{1/2} du$   $= \int u^{1/2} du = \int \frac{u^{3/2} + C}{3 \int \frac{3}{2}}$ 

 $= 2 u^{3/2} + C$   $= 2 (3b^2 - 1)^{3/2} + C$ 9 2× dx x2-1)1/2 dx = 4x2-1; du = 8x, i. dx= du dr 82  $\int 2\pi \cdot d\pi = \int 2\pi \cdot du$   $\int \frac{1}{2\pi} \frac{$ C = (4x2-1)1/2 + C 2 08 1(4x2-1) + C 2