Name: Lawal Ubs lawal Department : Civil Engineering Matric No: 19/ENG 03 027 COURSE! MATH 102 Annoers () r= zi + 4i + ZK r= ti + t= j + t3 k dr = i + 2tj + 3t2 k de A+t=1 dr = i+2j+3k $|dr| = \int (1)^{2} + (2)^{2} + (3)^{2} = \sqrt{14}$ T = dr/dtdt 2.) A= 4+3 j + 5k, B= 2+2; + 4+ j $G = A \times B = (4t^{3}j + 5k) \times (2t^{2}i + 4t_{j})$ G = 16t'' $\implies \int_0^t 16t'' dt$ 1' 165" + C 5 10 => 16 5

Math 102 assignments