## IQRA NATIONAL UNIVERSITY



## **Calculus and analytical geometry**

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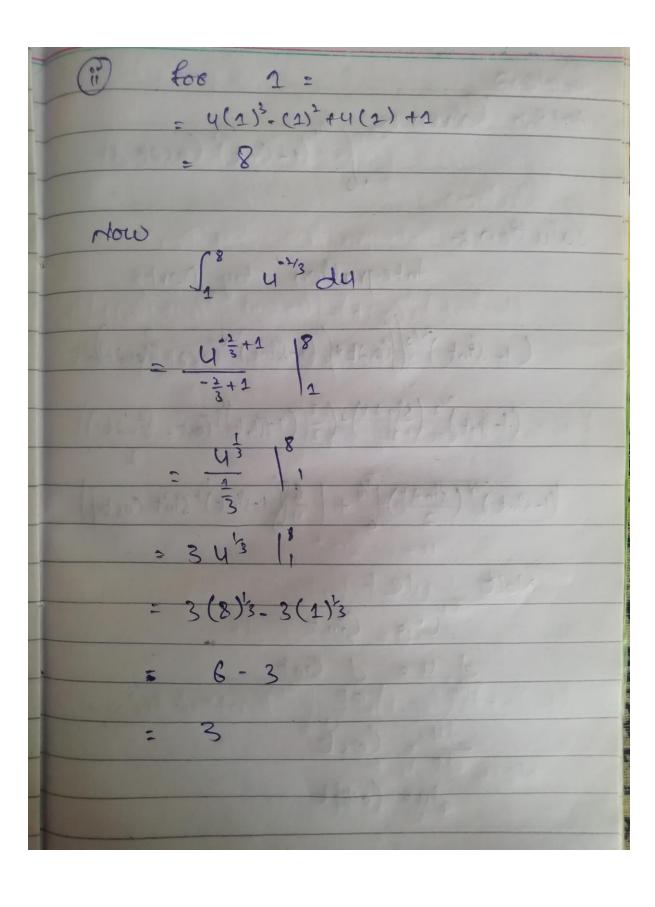
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SUBMITED TO: sir. Himayat ullah

Assignment

| Duca   |
|--|
| ANCO Givens (1/443-4/44+1) (124-24+4) dy   |
| (1 (1) - 1/3 (124-24+4) dy   |
|  |
| A  |
| Solutions  |
| The state of the s |
| (12y²-y²+4y+1)²3 (12y²-2y+4)dy   |
| The state of the s |
| 124 443-42+1 = U   |
| Now taking derivatives  d 443-44441 = d 4  dy dy   |
| d 443-42+44+1 = d 4  |
| dy   |
| 12 y² - 24 +4 = d4 dy  |
| dy   |
| (12y-2y +41) dy = d4   |
|  |
| (i) fox 0 =  |
| =4(0)-(0)2+4(0)+1  |
| = 1  |
|  |



ANSA Given n Struction 1312 Cosst dt
Calution
Integration by Port (1- (int) 3(cost)= (1- sint) 312 (052+ (1052+ )d+ = 3 (1-sint) 2 Cost - Sin2t) (-sint) (Cosst) ( Soust) (1-sint) (out Sint) Now let u= Sint paper du= Cost du (1-Sint) (Corrt) = 6 / (-4) 4 udy now let t= 1-4

alt = -1 dt = -dy (1-sint)3/2 (cost)= B (AG (1-t) 2 t/2 dt = - 6 ( m/4 (1-2++++) (+12) d+ = -6 (1/4 (+1/2)+3/2+ +5/2) dt applying Integral

= -6 | +5/1+ - 2 +3/1+ + +3+ | 1/4

= -6 | +5/1+ - 2 +3/1+ + +3+ | 1/4 = -6 [3(f)3 + 14 + 5(5 + 3 + 3/2)] 8M = -6 2 (Sint) Pay 4 (Sint) Sty ( 14 2 (Sint) 3/2 104 = -6 ( = (Sinys) - 7 (Sinus) 84 + 2 (Sinys) 3/2 = - 6 (0.78 +0.085-0.33) = - = (0.035) = 0.0525 ANS.