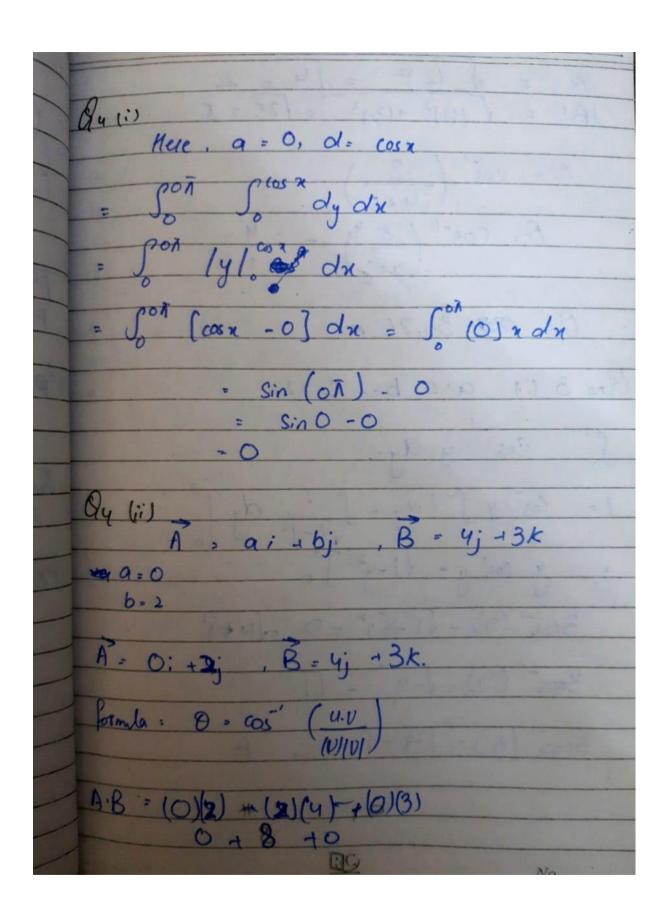
Sir Syed University of Engineering & Technology Answer Script

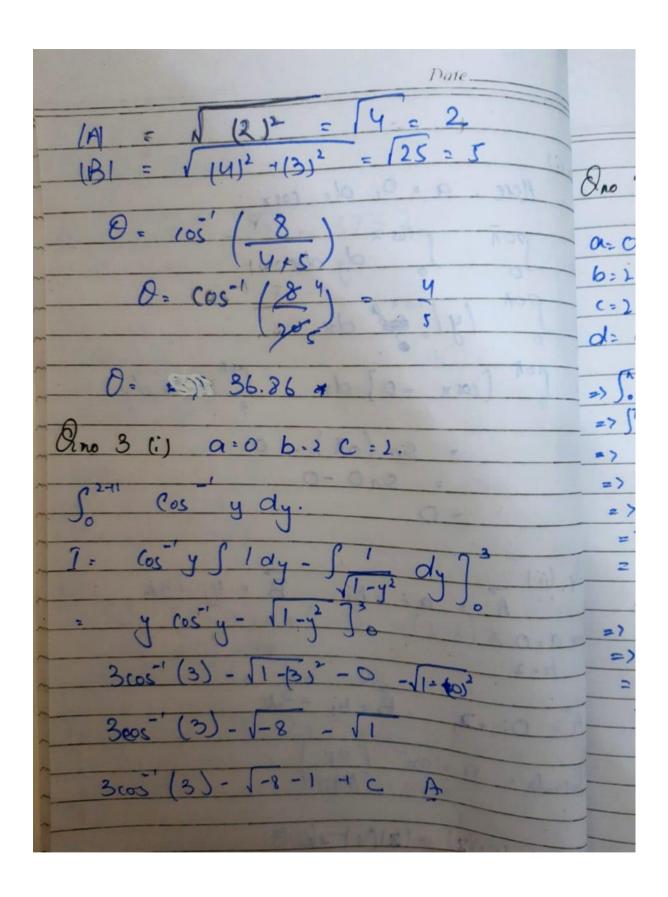
Date:	17 th June , 2021	
Roll Number:	SE-20F-022	
Section:	A	
Name:	Abdul Moiz Chishti	
Course Name:	Calculus and Analytical Geometry	
Degree Program:	Software Engineering	
Total number of pages being submitted:		

	Date
Roll NO: 022	
a . 0	dw = Gx)fsint) + (2)(cost)
b, 2	olt
c. 2	x = cost $y = sint$
Ono. 1 (i)	du - 2 cost sint + 2 cost sint
dy wit x	dw = 0
dy wit x	dt
	Ques: 2 (i)
df = 1+0 = 1	lim 'd - " (2411)
diff wx.t y	lim d .: (2+11)
df . O+1=1	1
Qno 1: (ii)	lim Sinx N-0 3x2
w= x2 +y2, x= cost , y=d.	Apply lin.
at t= aT	Sino
dw $2x$, $d\omega$ $2y$	3(0)
du dy	O Apply Ltopital Role
dx = - Sint , dy = cost	(Zan
dt df	lim cos Tax
3 dw du de de	lin - Sin 2 = 0
de de de de de	130 6 86
DC/	` '

Date
082
Qno: 2 (;;)
The same of the sa
f(n) (b+1) (d) Tn
F(x)= (2+1) (sin) Tx
= 3Sinte
Ph. 1 25 2
$f''(x) = 3\pi \cos \pi x$ $f''(x) = -3\pi \sin \pi x$
f (0) · Sin(T(6)) = 0
f(0): 3Tcos (T (0)) = \$3T
$f''(0) = -3\pi \sin(\pi(0)) = 0$
f(x)=f(0)+f'(0)n+n2f'(0)
21
P(x) = 0 +3/x + x2 (0)
2!
= 3N/A
The state of the s
THE LANGE SQUE OF THE PARTY OF

```
Date.
```





```
Date.
DAO 3 (ii)
000
6:1
  . (0+2+2) n2 (en) dn
=> 4 [n2 en -2 [nen_Jen dn]
 =7 4 [ n2e7-2 [ne7-e7]]
       [n'en-2nen+2en]
=> 4[[ T'ex -2 Tex +2e7]]
=> 4[[xex - 2xex +2ex]-2]
  => 509.080 A
```