Maths

U(riy)= x2 ty2 tdy -sin(r) sinhy

Un= 2n - siny cos(x) sinhy

P((2,0)= 22

\$ (2,00 4,2 - 2,4 + 2 - 5 in x cushy

\$2(2,0)= 2- sinz

f'(z) = 4, - i42

= 22-i(2+ sinz)

11/2) = 22 -21 + 15th 2

f(z)= /(2z-2i+isinz)dz

= 22 -212 -1(052 = (xtiy)2 -21(xtiy) -1(0)(xtiy)

= x2-y2 + 2ixy -2ix +2y -i[cosx (osjy - sin x siniy]

= x2-y2 + 2ixy -2ix +2y - icos x coshy =-sinxsinhy

f(z)= x2-y2 de-sinx sinhy +2y +i/2xy-2x cosx (oshy)

Information => Seat No:-422103077 Sem:- III

Subject: Math)

Signature: - SD Shefty

A) {{sin 2 + cos3 }} = 2{ 1-cos2+ · 1 Brost + cos3+)} = 1 25 (1-cos2+)(3cos+ + cos3+){ = 1 2 3 cost + cos3+ -3 cost-cost-cos3+-cos2+ = [156cost + 2coss+ -3[coss+ +cost]-[coss+ + cost]] = 1256cost +2(0137-3(055+ -3(05+-(05+-(05) = 1 <5 2 cost - cosst - cosst? $=\frac{1}{16} \frac{8}{5^2 + 1} \frac{25}{5^2 + 9} \frac{5}{5^2 + 9}$

> Information=> Seat No:- 42213077
> Sem:- II Signature:- 5:2-Shetty= Subject: - Maths

7		5. 17	7 /~					
E>	00	F= 65		; /	1 .	1,,,		
	61	y 100 64 -4	dg	,	200	d y2		
				4	16	0		
		-	-3 0	0	6	0		
	67 70		5	10	4	25		
		4		28	(6	49		
				Ed rdy = 99				
	N=5		249	- 70)		(6) 201		
	82 Edrady - (Edra) (Edy).							
	A .							
	\\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
		15N	2 - 12/2/	19.44 - 1240				
		20	N - 1598/-	1392-159A	<u>) - </u>			
) - <u>0</u> x	7		68_		
		= 48	2 - 0 X	7		F8 171.2		
		= 48) - <u>0</u> x	7	= <u>8</u> 4	f8 171.2		
		= 48	2 - 0 X	7		F8 171.2		
		= 48 \(\sqrt{40}	$\frac{-0\times}{5}$	7	= <u>8</u> 4	F8 171.2		
		= 48 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\frac{-0\times}{5}$	7	= <u>8</u> 4	F8 171.2		
		= 48 \(\sqrt{40}	$\frac{-0\times}{5}$	7	= <u>8</u> 4	F8 171.2		
		= 48 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\frac{7}{7} - 0 \times \sqrt{3}$	7	= <u>8</u> 4	F8 171.2		
		$= 48$ $\sqrt{40}$ $\sqrt{2} = 48$ $\sqrt{3}$	$\frac{7}{7} - 0 \times \sqrt{3}$	7	= <u>8</u> 4	F8 171.2		
		$= 48$ $\sqrt{40}$ $\sqrt{2} = 48$ $\sqrt{3}$	$\frac{7}{7} - 0 \times \sqrt{3}$	7	= <u>8</u> 4	F8 171.2		
		$= 48$ $\sqrt{40}$ $Y = 48$ $\sqrt{53.3}$ $\sqrt{2} = 0$	- 0 x - 0 x \ 0 \ x \ 0 \ \ x \ 0 \ \ \ \ \ \ \	94- <u>64</u> 5	= <u>8</u> 4	F8 J71.2		
	Inform	$= 48$ $\sqrt{40}$ $\sqrt{2} = 48$ $\sqrt{3} = 3$ $\sqrt{2} = 0$ $\sqrt{2} = \sqrt{2}$ $\sqrt{2}$ $\sqrt{2} = \sqrt{2}$ $\sqrt{2}$	- 0 x - 0 x \ 0 \ x \ 0 \ \ x \ 0 \ \ \ \ \ \ \	42213077	= <u>8</u> 4			

61 64 5 63 62 4 65 65 3 67 70 2 69 72 1	R_{y} $d_{i} = R_{x} - \frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{5}$ $\frac{3}{5}$ 0 0 0	Ry di ² 1 0 0 0 5 di ² 72	
1=5			0
$\mathcal{X} = 1$	$-\frac{6 \cdot \xi_{0} \cdot k^{2}}{n^{3} - h}$		
=	1 - 6(z) 53-7		
=	1 - 12		
2	120 10		•
R= 0-9			
Information => Teat Sem:- Subject	No:- 42210377	42213077	1 11 11
Sem!-	- Moths	Signature: - S 2	Therry
			4/12

C) f(r)= xsinx f(x)= x 5117x f(-x)= rsin x - flaker er en bn= 0 , L= 1 $\frac{f(x)}{2} = \frac{a_0}{2} + \frac{2}{2} = \frac{a_n f(x)(0) hx}{2}$ ao = 2 / f(r) /r = 2 / rsing da $= \frac{2}{\pi} \left[\gamma \left(-(\omega \gamma) - \left(-\sin \gamma \right) \right) \right]^{\frac{\pi}{\alpha}}$ = 2/-4(0)x + sinx/2 = 32 2/+0/=2 In formulion=> Seat No:- 48 42213077

Sem:- III Signolive:- 5.054441

Subject:- Math, 5/12

$$0_{h} = \frac{2}{l} \int f(x) \cos nx \, dx$$

$$= \frac{2}{R} \int \frac{\pi}{x \sin x} \cos hx \, dx$$

$$= \frac{2}{R} \int \frac{\pi}{x \sin x} \cos hx \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin x} \sin hx \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin x} (\sin hx) \, dx + \frac{\pi}{x \sin hx} \sin hx \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx + \frac{\pi}{x \sin hx} \sin hx \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx + \frac{\pi}{x \sin hx} \sin hx \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx + \frac{\pi}{x \sin hx} \sin hx \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R} \int \frac{\pi}{x \sin hx} (\sin hx) \, dx$$

$$= \frac{1}{R$$

This nether fail for n=1 = 2 / xsin2xd2 $\frac{1}{\pi} \left[\frac{1}{\pi} \left(\frac{-\cos(\pi)}{2} \right) - \left(\frac{1}{\pi} \left(\frac{-\sin(\pi)}{2} \right) \right) \right]^{\pi}$ = 2 - 7 (1) $f(\gamma) = \frac{q_0}{2} + q_1 \sin x + \sum_{n=2}^{\infty} a_n f(n) (\cos n x) d \gamma$ = 2 + (1) sinx + 5 (-2) (-1) x sinx (ushxdx 1 - sin x + & (-2)(-1)h rsin x cosh x dx

Information=> Feat no:- 42213077

Sem:- III

Subject:- Math