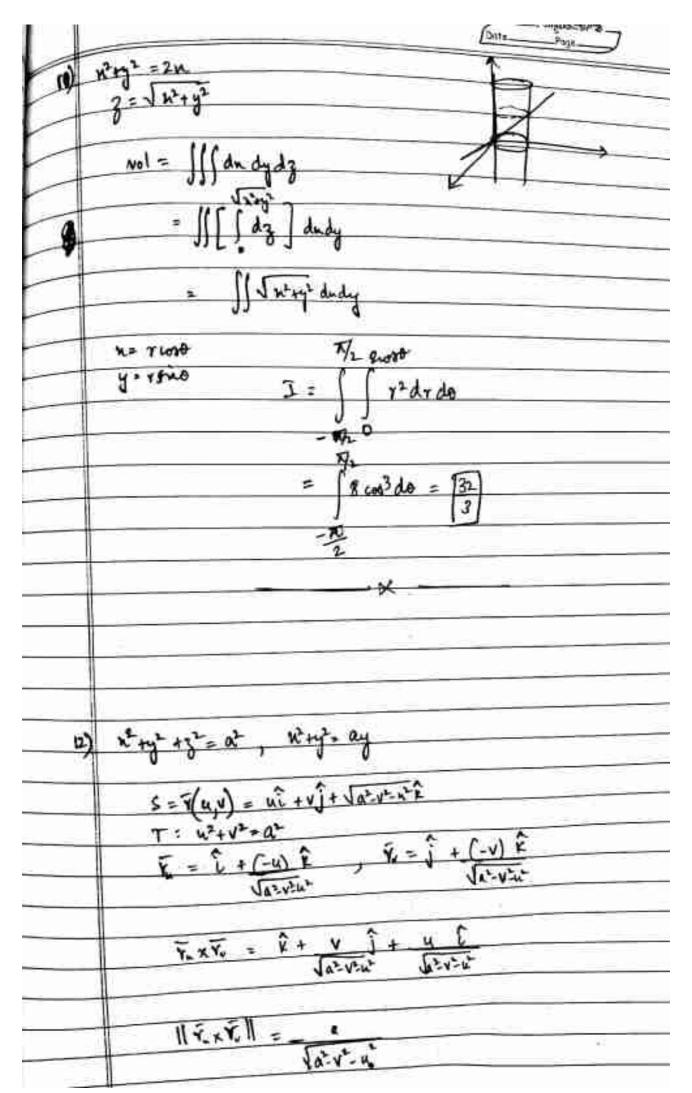


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	Date Page
(1(my) dray
13	13
	: Final arener = S, +Se
سرا	n jate oil = of urdu + adu
Lil	liven line Inglish = g y an + nay
-	c is a square (±2,0), (0,±2)
	- Charles Charles
1	Jerry Coreces march, in ger 3 3 mm mg - 1 -2
+	- ([y-y=] dx = [16]
	-3 C 3-4
743	
(0)	
I	
+	
1	
1	e
5) 5	= {(x,y), 0 = y = 1-x; 0 = x = 1}
	Stry dudy in polar wordinates
	St(n,y)dydn ⇒ Sf + (x(n,n, y(n,n)) 3 dudy y=y(n,n)
1	4 = Y (+,0)
-	M = YLONG , y = YLONG , IJ = Y , MTY = 1 = 2 CONDITIONS
	St Kinemas () f (reaso, reino) r Ardo

	a tory
A A	i) (i) [[(n2-ry2) dudy
	* If (x(u,v), Y(u,v)) I delay T
	$x = y_{Logo}$, $y = y_{Siho}$, $ J = y$ $x = y_{Logo}$, $y = y_{Siho}$, $ J = y$ $y = y_{Logo}$, $y = y_{Siho}$, $ J = y$
	1/82
	The surface
	=>1- \[\int \left(\text{resso}, \text{resso}) \text{rdrdo}
*	(ii)
	(m)
- • • • • • • • • • • • • • • • • • •	(i) (e,*), (2,0), (0,2)
	$ \begin{array}{c} (0_{j}0) \longrightarrow (0_{j}0) \\ (2_{j}0) \longrightarrow (2_{j}0) \end{array} $ $ \begin{array}{c} (0_{j}0) \longrightarrow (2_{j}0) \end{array} $
	(ii) $S = \iint dn dq = \iint dq dn = \iint \frac{(n+n)dn}{2} dn = 3$
	$T = \iint dv du = \int \int dv du = \int (2-v) dv = 6$

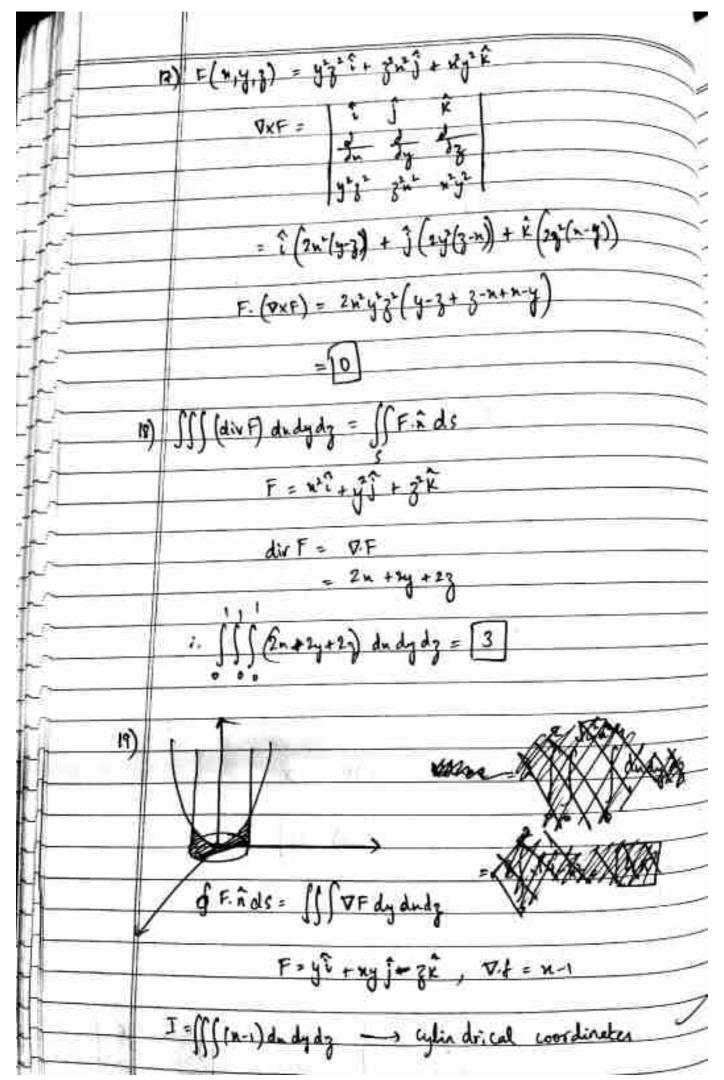
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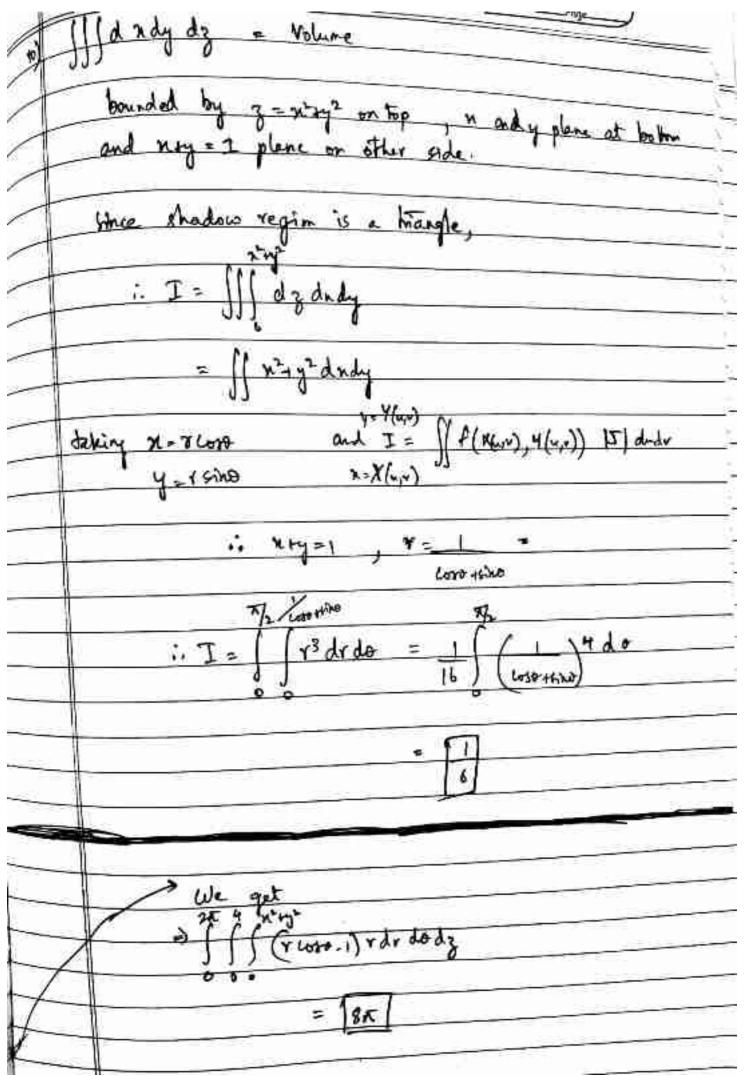
	= nandy = 11 a dudy
	S.A = \[1. \landy = \landy \frac{a}{\sqrt{a^2 \cdot v^2 u^2}} \]
	W = YWY
	V = 161 0 (X(4,4), Y(4,2)) (((X(4,4), Y(4,2)) ((((((((((((((((((
	[f(m,y) du dy =>) P (X(u,v), Y(u,v)) (x) dodo (x)
	T a rdrdo
	= A rarab
	= 1
	= \(\sqrt{\sqrt{1}} \)
	= (a) As = 2F a3
13) F (m,y,3) = xi +yj + 2û
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	[[F.ids = [[f(r(u,v)), (rix ri) dudy
	(i) $Y(u,v) = (u+v)\hat{i} + (u-v)\hat{j} + (1-2u)\hat{k}$ $Y_{k} = \hat{i} + \hat{j} - 2\hat{k} \cdot v, \hat{y}_{k} = \hat{i} - \hat{j}$
	Y = 1 + ∫ -2 × , Y = 1- j
	$\vec{Y}_{0} \times \vec{Y}_{0} = -2\hat{i} - 2\hat{j} - 2\hat{k}$ $-(\vec{Y}_{0} \times \vec{Y}_{0}) = 2\hat{i} + 2\hat{j} + 2\hat{k}$
	- (vi. x v.) = 2î +2î +2î
	≥ \$\int 2u+2v+2u-2v+2-4u = \int 2dedr
	32 1 2 du dv = 1 2
/	(m) y (u,v) = uî +vj + (1-u-v)î x = î-î, xx=j.î
	Navy = l+i+R

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	JF. ids = JF. (Tix Ti) dudy
1	= Sf(u2+v)+ (1-4-v)2).(1,1,1) d.d.
1	= dudy =
WY	(u,v) = ní+vj + (1-x)ê; F=y+z
-	
	\$ 13 (477), 4 (4.41)
+	<u></u>
1	$\vec{v}_{\nu} \times \vec{v}_{\nu} = \vec{J} + \hat{k}$ $ \vec{v}_{\nu} \times \vec{v}_{\nu} = \sqrt{2}$
+	12 = 1/52 du dy = 2/52
1	6 6
15)	J(wrl.F). n ds = of F.dx
	F = y2 +33+x6 , 3 = 1+x-42, 320
	文(f): whit + shej
	OF (Z(t)). Z(t) dt = [Gheî + with)(-sixti+ witj)
	=- \(\six \cdb \) = - \(\tau \)
1	
1	· · · · · · · · · · · · · · · · · · ·
()	F(N,4,3)= (9+3,3+n, N+y)
1	(F-di = [[(welf). Ads
	8 5 1 1 1 TENT 10
-	Curl F = 1 to 1
	(27 2 27)



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20)	we know that
	SSF dndydz = SF.ds
	Assume F= DF
	: SSS VF dudydz = Sfdf