

C/88/02 81,881,501,198 ATB. 1,081, 38-1, 180. OSS CHAP 1.55). Churk shokes thronon using u=agx+0xg Surface integral $\Delta \times \Delta = \frac{\partial \times}{\partial x} = \frac{\partial \times}{\partial x} = \frac{\partial \times}{\partial x} = \frac{\partial \times}{\partial x} = 0 = \frac{\partial \times}{\partial x} = 0$ (b-a) Z · dsz=(b-a) Ritt (aydx+ bxdy) X=ROSE 4 = R5108 -asin2 + boos2 Eldo = R2 (200 an+ boo) = R2 de 01 79 1.56). live integral along triangular path u=6x7y2g+13y+z)2 -25, 5 2020y =-25 1/2(2-24) you = - f'cry . ry2 - ry3) dy = - (2-3-4) = - 13 (gz2dy =0 z=0 2-2g=Z dz=-Zdy (gzZdy +(3y+z)dz)=([4y|1-y)2dy-2(2ty))dy [49-893493-4-24)89=-50493-892+24-908 - (1-3 +1-4)= 13

SHIND WE'D

1057). line integral = (10000) F-(100000) 0+300 dj=arr 0=1/2 D=0 (1003 par=0 d1 = rdq@ r=1 8=7/2 57/23rd0=3.7/2=37/2 受懂 罗学婆 8 = arsin 1/5 0 = 7/2 d1=dus 5° 11052800= (5° [1-5in38) dr 1/2(2(0) (1-5)-1-30 divergence theorem v=r2siner+4r2cos 00 tr2ton 00 1059). Ice cream conce relacood relinating rust (0,7%) (0,8) = 400 ing + wr (1050 - 6120) Mr (0000 CZT TI = 452 do 5 705 000 00 000 000

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	TRY (12. 3+1/6)
	3/7 3/7 3/3+2m)
	17-1 3867+ 34=11 31 3592-= NO 4=5 010
1-62).	a = \ da \ \ \tag{21 \tag{31 \tag{32}}
233	South Colors Ad VII and South Colors of the
	a). Board of Radio R \hat{\chi} = \psi \begin{aligned} \hat{\chi} & \hat{\chi} = \psi \begin{aligned} \hat{\chi} & \
	$= \frac{7}{2} \frac{2^{2}}{2^{2}} \frac{1}{(200)} \frac{1}{200} \frac{1}{2} = \frac{1}{2} \frac{1}{12} \frac{1}{2} \frac$
文学学 3	= 1/2 R[-(00(20)) 0 2=7182
2	b). From 1.61, T=1 TT=0, [9da=0]
19.6	
131	(). 5=0 5,-52=0 5,=52 For vosed survice 4=42
	AND CORE GRADIES AND
	D), a=1/2 grxd/ da=1/2(rxd/)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0), a=12 91 xa1 on thre surface = a=1261xa1
-1-75	E). 7= C.V
(aut)	E). T= C. r AT= C x (P xr) + (C. D) r= (C. D) r (Cx dx + (y d y + C2 dz) = (x x + (y y + C)
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