







	203 MANTE XI PLQ6 CURRETTIN	
17/		
NO.	a If weller field is consending it is also puth independent	1
	conservation to the transfer that the transfer to the transfer	
	conserve if $df = dg$	
		-
	$f = 2 \times y + y^3$ $0 = (x^2 + 3xy^2 + 2y)$ $\frac{df}{dy} = 2 \times + 3y^2 \qquad dy = 2 \times + 3y^2$	
	ds)	
	df = dg > 1618 conxmuty and path independent	1
7	ag 10 ax = (0,1) + (0,0) + (1,0) + (0,0)	
-	b AS F is an appropriate to a contract to	
Ö	b AS F is conservative a plental kindin exili	
SOSOS	$\frac{dQ}{dx} = 2xy+y^3 \text{and} \frac{dQ}{dy} = x^2+3xy^2+2y$	
C	$\phi = S(2xy+y^3)dx \int_{-1}^{1} dx \int_{-1}^{1} dx dx dx dx$	
4	\$\Phi = \times^2 y + \times^3 + (i(y)) where (i(y) is a constant depend on	
	y and is between a constant with respet to integrin	
	In X	
	North and the state of the stat	
	Differentiab with repett to y to equi	
	$\frac{dq}{dy} = x^2 + 3xy^2 + \frac{d(y)}{dy}$	
		1
	=7 x2 +3xy2 +2y = x2 +3xy2 + d[G(y)]	2
	24=1810	
	2y-d/10]	
	Mkyn4 (14) = y2	
	=> U = x2y+xy3 +y2+c Where (1) any out	
	123 (32)	
0		



