



artsona.		
	Section 143	
	positive	
	(x=4x3+5y3 fu=15xy)	
17.	$f_{-}=-t^{2}e^{-x}$ $f_{-}=2te^{-x}$	
19	$\delta z = \frac{1}{\sqrt{12}}$ $\delta z = \frac{2+}{\sqrt{2}}$	
73	G(cx+dy)-c(qx+by) (cx+dy)b-(qx+by)d	
	$\frac{\partial z}{\partial x} = \frac{1}{x+t^2} \qquad \frac{\partial z}{\partial t} = \frac{2t}{x+t^2}$ $f_{y} = \frac{a(cx+ay) - c(ax+by)}{(cx+ay)^2} \qquad f_{y} = \frac{(cx+ay)b - (ax+by)d}{(cx+ay)^2}$	
		/ Z \
	$h_{x^{2}} = 2y \cos(\frac{\pi}{\epsilon}) \times h_{y^{2}} \times 2\cos(\frac{\pi}{\epsilon}) \times h_{z^{2}} = \frac{-x^{2}y}{\epsilon \sin(\frac{\pi}{\epsilon})} + h_{z^{2}} = \frac{+x^{2}y^{2}}{\epsilon^{2}} \sin(\frac{\pi}{\epsilon})$	7 (t)
	Section 14.4	
	7+4-4(x-1)-1(y.2)=> == 4x-y-6	
5.	$f_{x} = x \cos(x+y) = 1 f_{y} = x \cos(x+y) = 1 z = -1(x+1) - 1(y-1) = -x-y$ $f_{x} = \frac{xy}{xy-5} + \ln(xy-5) = 6 f_{y} = \frac{x^{2}}{xy-5} = 4 f(z,z) = 1$	
samiles and the same of the sa	$f_x = \frac{xy}{xy-5} + \ln(xy-5) = 6$ $f_y = \frac{x}{xy-5} = 4$ $f(z,z) = 1$	
	Both continuous => f is differentiable	
	L=1+6(x-7)+4(y-3)=6x+4y-23	ALTERNATION OF THE PARTY OF THE
10	1 L=6+(x-2)-(y-5)=x-y+9 L(22,49)≈6.3	The state of the s
	3 dA = 2x dx + 2y dy = y dx +xdy = 24(0.0+30(0.1) = 5.4	
	f(a+dx, b+dy)-f(a,b)=d==fxdx+fydy	
	1:m f(aax+bay)=xim f(a,b) f, ax + f, dy	
	1:m f(aax+bay)=xim f(a,b) f, ax + f, dy (ax,ay)=(0,0) (dx,dy)=(0,0)	
	(im f(x,y) = f(a,b) there fore continuous	
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