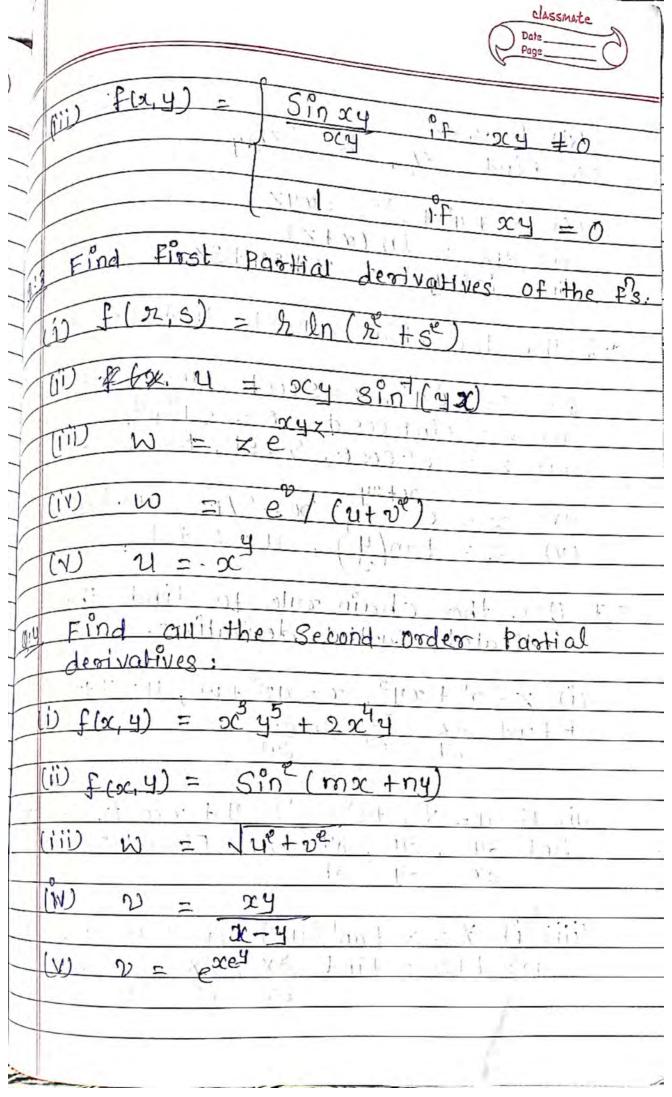
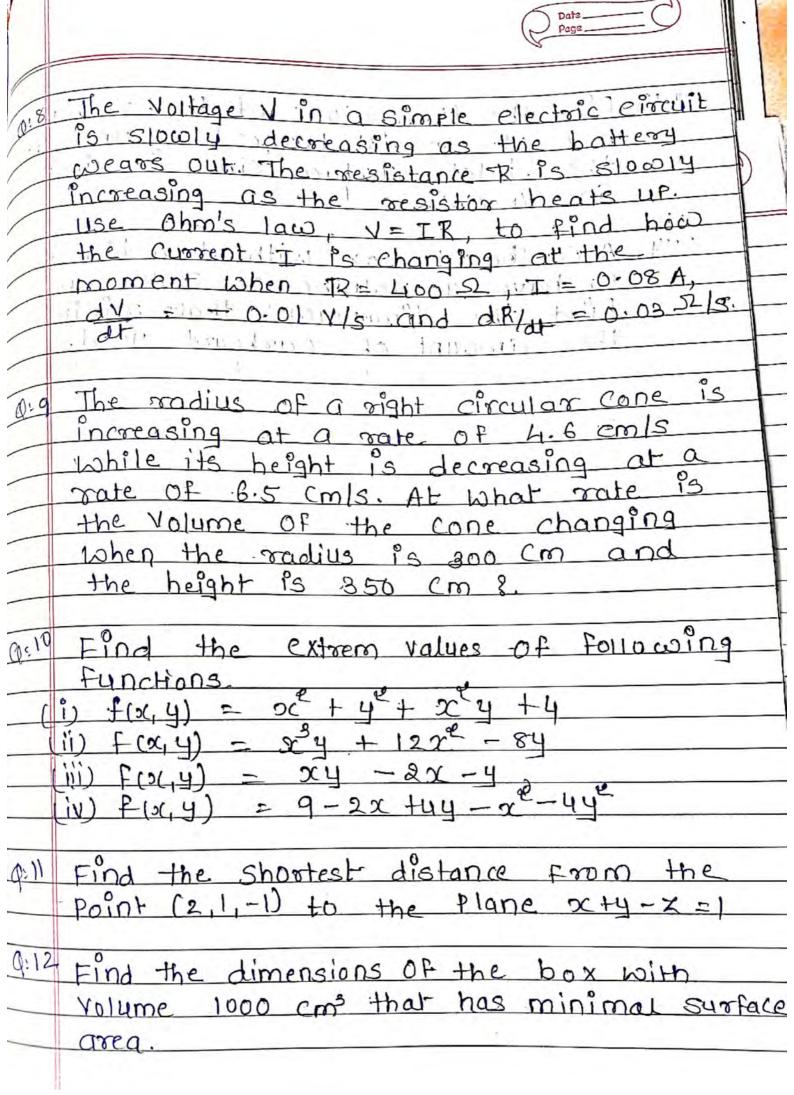
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	Assignment-1
0:1	Find the limit, if it exists.
	(i) -lim 4-xy (x,y)->(2,1) xe+3ye
	(ii) lim $xy \cos(x-2y)$ $(x,4) -> (6,3)$
	(iii) $\lim_{(x,y)\to(0,0)} \frac{x+\sin^2y}{2x^2+y^2}$
	(iv) Lim ocy cosy (x,4)-1 (0,0) 3x2+42
	$\begin{array}{ccc} (x,y) \rightarrow (0,0) & x^{2}y e^{\frac{1}{2}} \\ (x,y) \rightarrow (0,0) & x^{4} + 4y^{2} \end{array}$
	(x, y, z) -> (3,0,1) $e^{-xy} sin(x)$
9:2	Determine the Set of Points at- which the function is Continuous.
	i) $f(x, y, y) = \int \frac{x^2y^3}{2x^2+y^2}$ if $(x, y) \neq (0, 0)$
	i) $f(x,y) = \int \frac{3cy}{x^2 + xy + y^2}$ if $(x,y) \neq (0,0)$
	( 0 if (x,y) = (0,0)



95 Find 2x/ox & 3x/84 (1) . ot + y" + ze = g | xyx (ii) yz = ln(x+x)(iii) sin(xyz) = x+2y+3zQ: 6 Use the chain rule to find 8x/as & 8x/at. 6) Z=xxxy3, x=Scost, y=Ssint (ii)  $Z = Sin \theta \cos \phi$ ,  $\theta = St$ ,  $\theta = S^{\theta}t$ (iii)  $Z = e^{12} \cos \theta$ , h = St,  $\theta = \sqrt{S^{\theta} + t^{\theta}}$ X = e = 50 = 8/t, y= E/s Z = tan(4), u = 25+8t, 0= 35-26 1:7 Use the chain rule to find the indicated Partial derivatives. i) x = x + xy3, x = 42 + w3, y = 4+ve2; 2 2x 2w 4 find dx, dx (ii) if u= 192+52, 92=4+xcost, S=x+ysint; find 24, 24, 24 at Pt. (1;2,0): (iii) if X = w tant (uv), u= 9, +s, v= stt, W = t + 9; Find  $\frac{\partial x}{\partial y}$ ,  $\frac{\partial x}{\partial z}$  at (1,0,1)





7	Classmate Date Page
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