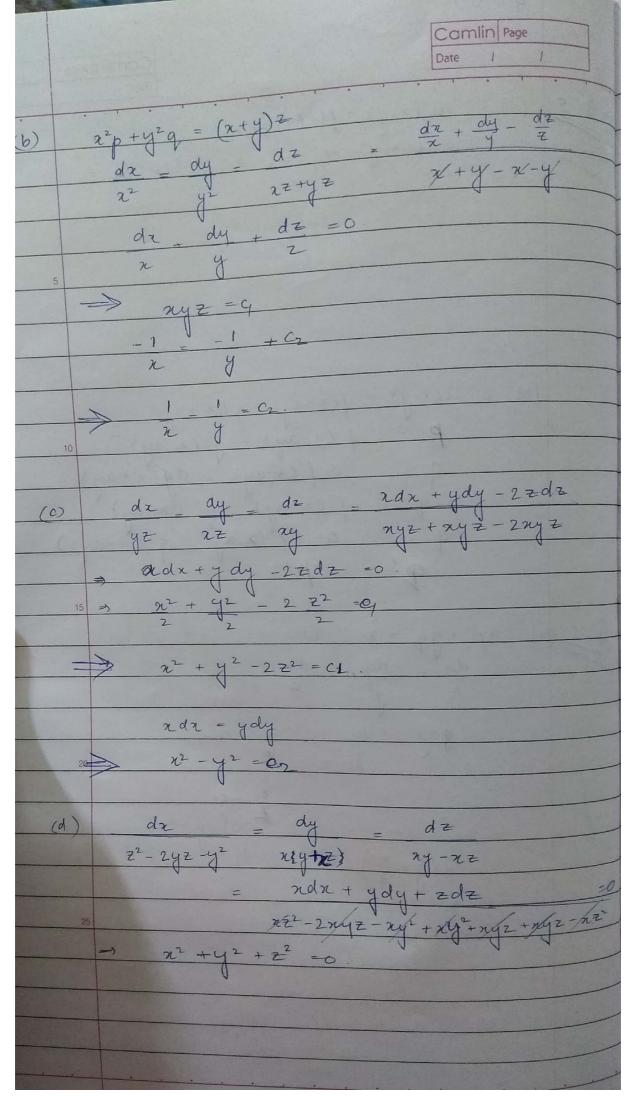
Asa th 5 Camlin Page Date / /
Assgn # 5. Date
$\int (x^2 + y^2) = u = x^2 + y^2$
f'(u) = 2x + 2y dy
$z = xy + f(x^2 + y^2)$ $p = y + 2xf'(u)$
q = x + 2q f'(u)
$\frac{1}{2} \frac{p-xy}{2x} = \frac{q-x}{xy}$
$\frac{10}{10} = \frac{y - \pi y^2 - q x - x^2}{10^2 - 11^2 - 0}$
=> py-qx+n2-y2=0.
$\frac{1}{2} = f\left(\frac{x}{y}\right)$
15 => $p = 1 f'(u)$, $g = -\pi f'(u)$ $y = -\pi f'(u)$
$py = -qy^2$
pry + qy2 =0.
$ \frac{1}{1} u = x - \overline{z}, v = y - \overline{z} $ $ \frac{du}{du} = \partial x - \partial \overline{z}, dv = \partial y - \partial \overline{z} $
d F(u,v)=0.
$\frac{\partial n - \partial \overline{z} = 0}{\partial \overline{z}} = 0$ $\frac{\partial z}{\partial \overline{z}} = 1$ $\frac{\partial z}{\partial \overline{z}} = 1$
ar v
de p = q

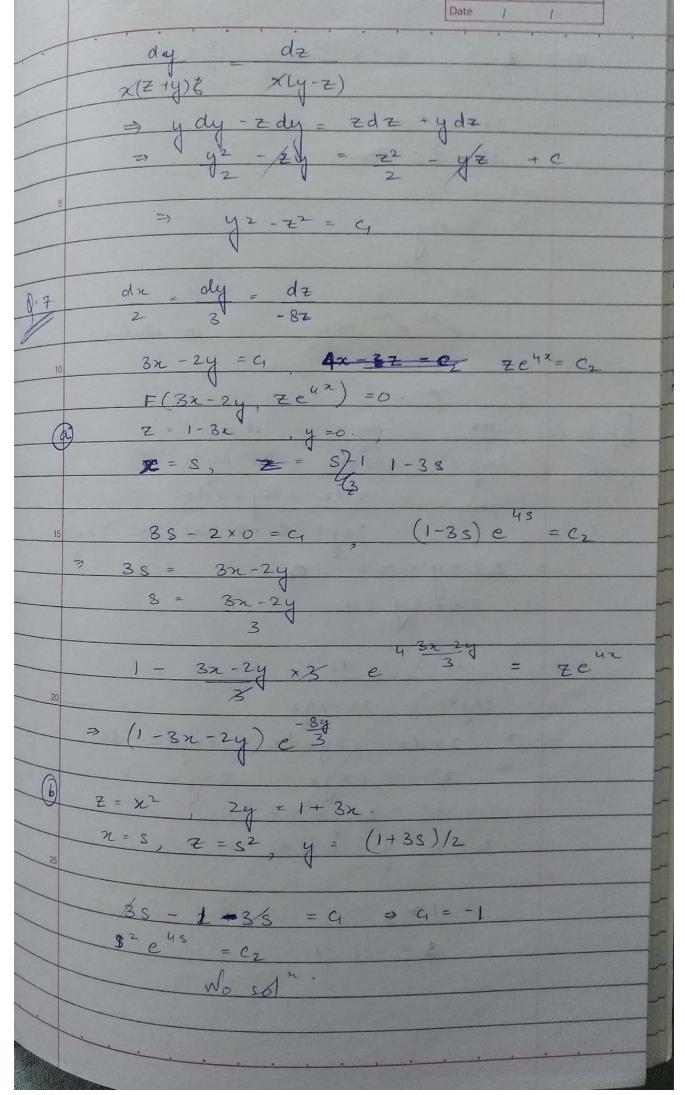
4. (b) Camlin Page Date 1
Q = 3 a z = (n+a)(y+b) $Q = (y+b)$
$\frac{q}{q} = (n+\alpha)$ $\frac{q}{q} = pq$
z = ax + by $p = ax$ $q = b$
$\frac{2}{2} = \beta x + 9 y$
c) $z^{2}(1+a^{3}) = 8(x+ay+b)^{3}$ $2 \neq b (1+a^{3}) = 8 \times 3(x+ay+b)^{2}$ $2 \neq q (1+a^{3}) = 8 \times 3(x+ay+b)^{2}(1+a)$
$\frac{Q\cdot 4\cdot 15}{2n+2(z-c)} = 0$
2y + 2(z-c)q = 0 $x = y$ $p = q$
$\frac{1}{20} \qquad \frac{1}{9} \sqrt{-9} \times \frac{1}{20}$
b) $(a^2+y^2)\cos^2\theta - (z-c)^2\sin^2\theta = 0$
25

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Q.5.(a)	
Camlin Page	
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$\int_{0.5}^{\infty} \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}$	
((xy) =) u2 = f2(v) v2	
5	
(b) = u(x,y) = f(x-ay) + g(x+ay)	
p = f'(x-ay) + g'(x-ay)	
q = -a f'(x-ay) + a g'(x+ay)	
b'a = f''(x-ay) + g''(x-ay)	
$p'q = f''(x-ay) + g''(x-ay)$ $q' = a^2 (f''(\alpha-ay) + g''(x+ay))$	
$\phi' = a^2 \phi'$	
15	-
16: (a) 30 + 40 = 7	
$\frac{\int \int \int \int \partial u}{\partial x} dx = \frac{1}{2}$	-
$\frac{dx}{x} = \frac{dy}{y} = \frac{dz}{z}$	
10 d	-
$\frac{y dx - dy}{x} \Rightarrow \frac{x - cy}{y}$	
	-
2 = C2 Z	-
	1
$F\left(\frac{z}{t},\frac{z}{t}\right)=0.$	-
	一
	+

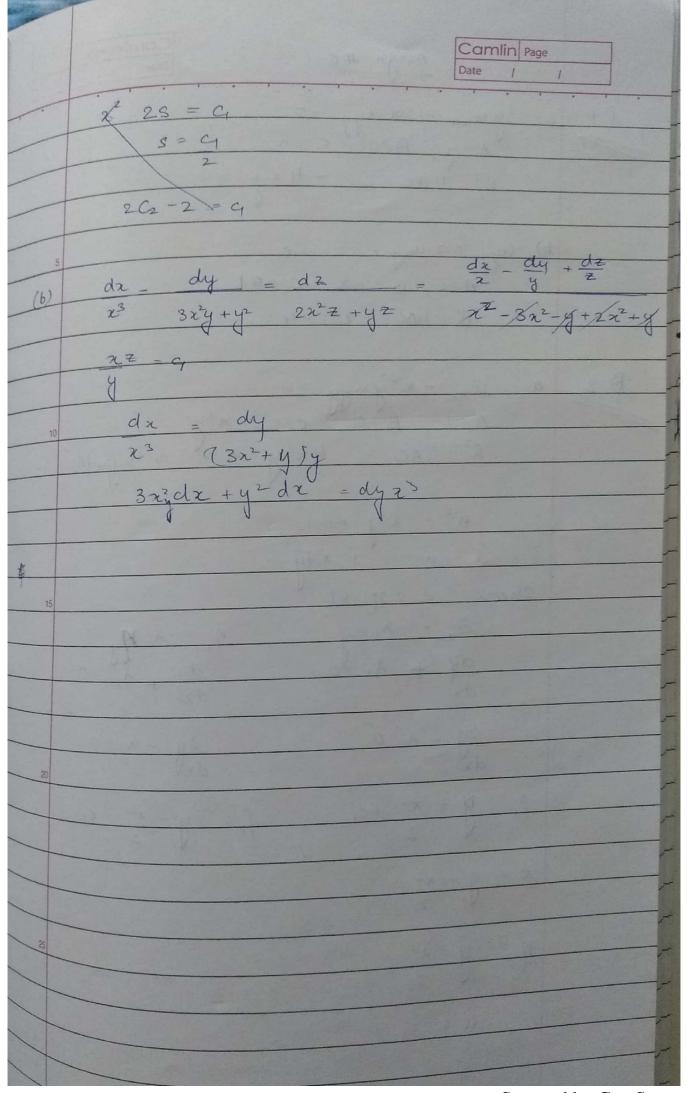


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Camlin Page Date 1
(c) $z = s$, $z = e^{-4s}$, $y = \frac{3}{2}s$
3n-2y=9
35-35=4
$\Rightarrow q = 0.$
7 3n=2y
$ze^{4x}=c_{2}$
g-4s ess = c2 op solution
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
p)
$\frac{\sqrt{8 \cdot (a)} dx}{2ny-1} = \frac{dy}{2-2x^2} = \frac{dz}{2x-2y^2}$
2ny-1 z-2x2 2x-2y2
$= 2dx + dy + xdz$ $= 2hyt - /t + t - 2h^2 + 2ht^2 - 2hyt$
=> Zxz+y = q
$\Rightarrow 2xz+y=q$
12
$\frac{dz}{dz} = dz$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\frac{3}{2x dx} - \frac{2y \pm dx}{2y \pm dx} = \frac{2xy dz}{dz} - \frac{dz}{dz}$
$32^{2} - 2xyz = 2xyz - 2$
=> 22 - 2xyz + = c,
$z_0 = 1, y_0 = 0, z_0 = S$
25
$1+S=C_2$
$\$ = c_2 - 1$

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	Assgn #6. Camlin Page Date 1
0.1	a) yunn - nugy =0
	A=y, $B=0$, $C=n$.
	B2-4AC = - 4 my
5	b) ugy - x ung +0
	A=0, $B=-2$, $C=81$
	B2 - 4- 4
8 8	$0 1 -x^2 \cdot (1 = 0)$
10	$A = 1 B = 0 C = -n^2y$
	$A = 1 B = 0 C = -n^2y$ $B^2 - 4AC = 4n^2y > 0 \Rightarrow hyperbola$
	$\alpha^2 - \chi^2 y = 0.$
15	Choose & & n s.t.
16	
	$\frac{\mathcal{E}_{\chi} = \lambda_{1} \mathcal{E}_{\chi}}{dy + \lambda_{1} = 0}, \frac{\mathcal{A}_{\chi}}{dx} + \lambda_{2} = 0.$
20	$\frac{\partial y}{\partial x} + x = 0$ $\frac{\partial y}{\partial x} - x = 0$
	$f_1: y + x^2 = c_1$ $f_2: y - x^2 = c_2$
	1. 1 2
	$\mathcal{E} = y + \lambda^2$
25	$N = U - 2^2$
	$ \eta = y - 2^2 \\ $
	u = u

