



| (0 | Tay Patel |
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| ام امادل | Exam1 Jay Patel (x3 + 84x) dy =0 |
| -2 | $(3x^2y + 4y^2 + 2)dx + (x^3 + 8yx)dy = 0$ |
| (33) | C 37x - y + 4 y + 2) 0 x (x) p |
| \Rightarrow | mdx + Ndy =0 |
| | |
| | N = 33 + 89x |
| | ocitivos - |
| | |
| | 24 0=3-1005+00 SPR (00) |
| (2) | $3N = 3x^2 + 8y$ |
| 0 | |
| | so, $\frac{\partial m}{\partial y} = \frac{\delta N}{\partial x}$, the equation is exact. |
| | 24 2x |
| | |
| | Let the solution be *(xxy)=0. |
| | $\frac{\partial u}{\partial x} = m = 3x^2y + 4y^2 + 2$ |
| | |
| | $u(x,y) = x^3y + 4y^2x + 2x + g(x)$ |
| | g(y) is a function set y done |
| | |
| | $50, 3u = x^3 + 8yx + g'(x)$ |
| | 34 |
| 0 | |
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| Je | But $\frac{\partial u}{\partial x} = N = x^3 + 8yx$ |
|-----|---|
| | $\partial_{1}(x) = 0$ |
| | g'(y) = c, (c) is constant |
| = | u(x/y) = x/3 y +4y2x + 2x+C |
| | Solution u(x,y)=0 |
| FA | $\Rightarrow x^3y + 4y^2 \times +2x + c = 0$ |
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