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MATH 20C Midterm 2 solutions 1. (a) $c(t) = (e^t; \cos(t); \sin(t))$ $c'(t) = (e^t; -\sin(t); \cos(t))$ At $t = 0$, the velocity vector of the path is $c'(0) = (1; 0; 1)$. The speed at $t = 0$ is $\|c'(0)\| = \sqrt{2}$. (b) The desired parametric equation is $l(t) = c(0) + t \cdot c'(0) = (1; 1; 0) + t(1; 0; 1)$ 2. (a) $Dc(t) = \begin{pmatrix} e^t & -\sin(t) & \cos(t) \\ -\sin(t) & -\cos(t) & -\sin(t) \\ \cos(t) & \sin(t) & -\cos(t) \end{pmatrix}$ $Df(x; y) = \begin{pmatrix} 2x & 2y \\ 2x & 2y \end{pmatrix}$ $Df(c(0)) = \begin{pmatrix} 2 & 2 \\ 2 & 2 \end{pmatrix}$ $Df(c(0))Dc(0) = \begin{pmatrix} 4 & 2 \\ 4 & 2 \end{pmatrix}$

MATH 20C Midterm 2 solutions - UCSD Mathematics
MATH 20C Practice Midterm 2 solutions 1. $r\theta(t) = (2\cos(t)\sin(t); 3\cos^2(t))$ or $(\sin(2t); 3\cos^2(t))$ 2. $D(f \circ g)(1; 1) = \begin{pmatrix} 1 & 2 & 2 & 3 \\ r & f & e & 1 \end{pmatrix} \begin{pmatrix} 5 & 12 \\ 1 & e \end{pmatrix} = \begin{pmatrix} 1 & e \\ 5 & 12 \end{pmatrix} = 5 + 12e$ 4. $\frac{\partial f}{\partial x} = 2xy + y^2$ $\frac{\partial f}{\partial y} = x^2 + 2xy + 2y$ $\frac{\partial f}{\partial z} = 2yz$ $\frac{\partial^2 f}{\partial x^2} = 2y$ $\frac{\partial^2 f}{\partial y^2} = 2x + 2$ $\frac{\partial^2 f}{\partial z^2} = 2y$ $\frac{\partial^2 f}{\partial x \partial z} = 0$ $\frac{\partial^2 f}{\partial x \partial y} = 2x$ $\frac{\partial^2 f}{\partial y \partial z} = 2z$ $\frac{\partial^2 f}{\partial x \partial y} = 2x + 2y$ $\frac{\partial^2 f}{\partial y \partial x} = 2x + 2y$ $\frac{\partial^2 f}{\partial x \partial z} = 2y$ $\frac{\partial^2 f}{\partial y \partial z} = 2z$ $\frac{\partial^2 f}{\partial z \partial x} = 2y$ $\frac{\partial^2 f}{\partial z \partial y} = 2z$ $\frac{\partial^2 f}{\partial z \partial z} = 2y$

MATH 20C Practice Midterm 2 solutions - UCSD Mathematics
Math 173A Midterm 2 Solutions Jon Pham, Zi Yang, Ziyang Zhu November 2019 1. Problem 1 (Zi Yang) (a) The function f is a sum of two squares, thus $f(x^2 + 2) = 0$ if and only if $x^2 + 2 = 1$ which has unique solution $(1; 1)$. Therefore $(1; 1)$ is the unique global minimizer. (b) $r_f = 400x^2 + 2(x^2 + 2)$ $200(x^2 + 2)$; $r_f' = 800x + 4$ $400x + 2$

Math 173A Midterm 2 Solutions - UCSD Mathematics
PRACTICE MIDTERM 2 Instructor: Ila Varma Math 100A, Lecture B Fall 2018 (1) Prove that A_n is a normal subgroup of S_n for all n . (2) Find two non-isomorphic groups of order n^2 for any integer $n > 2$. Justify that your

PRACTICE MIDTERM 2 - UCSD Mathematics
MATH 10C Practice Midterm #2 Solutions ebruary F 23, 2016 1. (6 points) Let F be the function defined by $F(x; y) = e^{(x^2 + y^2)}$. (a) Compute algebraically the partial derivatives F_x and F_y . SOLUTION: $F_x = 2xe^{(x^2 + y^2)}$ $F_y = 2ye^{(x^2 + y^2)}$ (b) $F(x; y) = e^{(x^2 + y^2)}$ $F_x = 2xe^{(x^2 + y^2)}$ $F_y = 2ye^{(x^2 + y^2)}$ $F_{xx} = (2x^2 + 2)e^{(x^2 + y^2)}$ $F_{yy} = (2y^2 + 2)e^{(x^2 + y^2)}$ $F_{xy} = 2xye^{(x^2 + y^2)}$ $F_{yx} = 2xye^{(x^2 + y^2)}$ $F_{xx} = (2x^2 + 2)e^{(x^2 + y^2)}$ $F_{yy} = (2y^2 + 2)e^{(x^2 + y^2)}$ $F_{xy} = 2xye^{(x^2 + y^2)}$ $F_{yx} = 2xye^{(x^2 + y^2)}$

Math 10C Practice Midterm #2 Solutions
Solutions to Midterm 2. Math 100A, Fall 08 November 30, 2008 1) $\text{Var}(1+2X) = 4\text{Var}(X) = 12$ 2) Poisson $\lambda = 4.5$ $P(X < 2) = P(X = 0) + P(X = 1) = e^{-4.5} + (4.5)e^{-4.5}$ 3) $P(H) = 4/5, P(T) = 1/5$. The number of heads on 500 tosses can be approximated by a normal random variable with parameters $\mu = 500 \cdot (4/5) = 400$ and $\sigma = \sqrt{500 \cdot (4/5) \cdot (1/5)} = \sqrt{80}$.

Solutions to Midterm 2, Math 100A, Fall 08
Sample 2: Solutions: The solutions are a mix of two different versions of the midterm, so some of the numbers in the questions are different from the posted sample exam. Midterm 2 : Sample 1: Solutions: Sample 2: Solutions: Final : Sample 1: Solutions: In problem 7, the entries of v_3 need to be permuted. Sample 2: Solutions

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Math 109 Fall 2019 - UCSD Mathematics Midterm 2 Solutions Ucsd Mathematics MATH 20C Practice Midterm 2 solutions - UCSD Mathematics Math 142B Midterm Exam 2 Solution 1. Let $f : \mathbb{R} \rightarrow \mathbb{R}$ be continuous. Define $G(x) = \int_0^x f(t) dt$ for all x : Use the Second Fundamental Theorem to show that $G'(x) = f(x)$ for all x . (Hint: Use the

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