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MATH 20C Midterm 2 solutions 1. (a)  $c(t) = (et; \cos(t); \sin(t))$   $c'(t) = (e; \sin(t); \cos(t))$  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  $l(t) = c(0) + t c'(0) = (1; 1; 0) + t(1; 0; 1)$  2. (a)  $Dc(t) = \begin{pmatrix} e \\ -6t \cos(t) \end{pmatrix}$  #  $Df(x; y) = h_y e^{(x+1)y} (x+1)e^{(x+1)y} i$  (b)  $D(f \circ c)(0) = Df(c(0))Dc(0) = h$

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MATH 20C Midterm 2 solutions - UCSD Mathematics

MATH 20C Practice Midterm 2 solutions 1.  $r_0(t) = (2\cos(t)\sin(t); 3 - 3t^2; 1)$  or  $(\sin(2t); 3 - 3t^2; 1)$  2.  $D(f \circ g)(1; 1) = \begin{pmatrix} 1 & 1 & 2 & 2 & 3 \end{pmatrix} \cdot \begin{pmatrix} f(e; 1) \\ (5; 12) \end{pmatrix} = (1; e)(5; 12) = 5 + 12e$  4.  $\frac{\partial f}{\partial x} = 2xy + y^2$   $\frac{\partial f}{\partial y} = x^2 + 2xy + z^2$   $\frac{\partial f}{\partial z} = 2yz$   $\frac{\partial^2 f}{\partial x^2} = 2y$   $\frac{\partial^2 f}{\partial y^2} = 2x$   $\frac{\partial^2 f}{\partial z^2} = 2y$   $\frac{\partial^2 f}{\partial z \partial x} = 0$   $\frac{\partial^2 f}{\partial x \partial z} = 2z$   $\frac{\partial^2 f}{\partial y \partial z} = 2z$  5.  $(0; 0)$  6.

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MATH 20C Practice Midterm 2 solutions - UCSD Mathematics

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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  $f(x_1; x_2) = 0$  if and only if  $x_1^2 + x_2^2 = 0$  which has unique solution  $(0,0)$ . Therefore  $(0,0)$  is the unique global minimizer. (b)  $f(x_1, x_2) = 400x_1^2 + 2(x_1 - 2)^2 + 200(x_2 - 1)^2$ ;  $f(x_1, x_2) = 400x_1^2 + 2(x_1 - 2)^2 + 200(x_2 - 1)^2$

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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

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PRACTICE MIDTERM 2 - UCSD Mathematics

Math 10C Practice Midterm #2 Solutions February 23, 2016 1. (6 points) Let  $F$  be the function defined by  $F(x,y) = e^{(x-1)^2+y}$ . (a) Compute algebraically the partial derivatives  $F_x$  and  $F_y$ . SOLUTION:  $F_x = 2e^{(x-1)^2+y}(x-1)$ ;  $F_y = e^{(x-1)^2+y}$  ANSWER:  $F_x = 2e^{(x-1)^2+y}(x-1)$ ;  $F_y = e^{(x-1)^2+y}$

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Math 10C Practice Midterm #2 Solutions

Solutions to Midterm 2, Math 180A, 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

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number of heads on 500 tosses can be approximated by a normal random variable with parameters  $\mu = 500 \cdot (4/5) = 400$  and  $\sigma = \sqrt{500 \cdot (4/5) \cdot (1/5)} = \sqrt{80}$ .

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Solutions to Midterm 2, Math 180A, 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 18 - University of California, San Diego

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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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Midterm 2 for Math 109 : UCSD - reddit

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