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MATH 20C Midterm

2 solutions 1.

(a) $c(t) = (e^t; \cos(t); \sin(t))$

$c'(t) = (e^t;$

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$\sin(t); \cos(t)$

At $t = 0$, the
velocity vector
of the path is

$$c'(0) = (1; 0; 1).$$

The speed at $t =$
 0 is $\|c'(0)\| =$

p 2: (b) The
desired

parametric
equation is $l(t)$

$$= c(0) + (t$$

$$0) c'(0) =$$

$$(1; 1; 0) + t(1; 0; 1)$$

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2. (a) $D_c(t) = 6t \cos(t)$

$D_f(x; y) = h$

$y e^{(x+1)y}$

$(x+1) e^{(x+1)y}$

(b) $D(f \circ c)(0) =$

$D_f(c(0)) D_c(0) =$

h

MATH 20C Midterm

2 solutions -

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Practice Midterm
2 solutions 1.

$$r_0(t) = (2\cos(t)\sin(t); 3t^2; 1) \text{ or } (\sin(2t); 3t^2; 1)$$

$$2. D(f \cdot g)(1; 1) = 1 \cdot 1 + 2 \cdot 2 = 5.$$

$$r_f(e; 1)(5; 12) = (1; e)(5; 12) =$$

$$5 + 12e \quad 4. \frac{\partial f}{\partial x} = 2xy + y^2 \quad \frac{\partial f}{\partial y} =$$

$$x^2 + 2xy + z^2 \quad \frac{\partial f}{\partial z} = 2yz \quad \frac{\partial^2 f}{\partial x^2}$$

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$\frac{\partial^2 f}{\partial y^2} = 2y$
 $\frac{\partial^2 f}{\partial x^2} = 2x$
 $\frac{\partial^2 f}{\partial z^2} = 2z$
 $\frac{\partial^2 f}{\partial x \partial z} = 0$
 $\frac{\partial^2 f}{\partial x \partial y} = 2z$
 $\frac{\partial^2 f}{\partial y \partial z} = 2x$
 $\frac{\partial^2 f}{\partial x \partial y} = 2x + 2y$

5. $(0; 0)$ 6.

MATH 20C

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Math 173A Ucsd
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Mathematics

Solutions Jon

Pham, Zi Yang,

Ziyan Zhu

November 2019 1.

Problem 1 (Zi

Yang) (a) The

function f is a

sum of two

squares, thus

$f(x^2 - 1; x^2) = 0; 8x^2$

$f(x^2 - 1; x^2)$

$= 0$ if and

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only if $x_1 = x_2 = 2$
 $= 1 \times 1 = 0$
which has unique
solution $(1;1)$.
Therefore $(1;1)$
is the unique
global

minimizer. (b)

$$r_f = 400x_1 - (x_2 - x_2) + 2(x_1 - 21)$$

$$200(x_2 - x_2 - 1) ;$$

$$r_f = 1200x_1 - 400x_2 + 2 \cdot 400x_1 - 400x_2$$

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Math 173A

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2 Instructor:

Ila Varma Math

100A, Lecture B

Fall 2018 (1)

Prove that A_n

is a normal

subgroup of S_n

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for all n . (2)

Find two non-
isomorphic

groups of order
 n^2 for any
integer $n \geq 2$.

Justify that
your

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Math 10C

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#2 Solutions
February 23,
2016 1. (6

points) Let F be
the function de
ned by $F(x; y) =$
 $e(x-1)^2 + y$.

(a) Compute
algebraically
the partial
derivatives F_x
and F_y .

SOLUTION: $F_x =$

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$$\frac{\partial}{\partial x} F = e^{(x-1)^2+y} \frac{\partial}{\partial x} ((x-1)^2+y) = e^{(x-1)^2+y} 2(x-1)$$

$$\frac{\partial}{\partial y} F = e^{(x-1)^2+y} \frac{\partial}{\partial y} ((x-1)^2+y) = e^{(x-1)^2+y} 1$$

$$\frac{\partial}{\partial x} F = e^{(x-1)^2+y} 2(x-1)$$

ANSWER:

$$F_x = 2e^{(x-1)^2+y}$$

$$F_y = e^{(x-1)^2+y}$$

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#2 Solutions
Solutions to

Midterm 2, Math
180A, Fall 08

November 30,
2008 1)

$$\text{Var}(1+2X) =$$

$$4\text{Var}(X) = 12 \quad 2)$$

$$\text{Poisson } \lambda = 4.5$$

$$P(X < 2) = P(X =$$

$$0) + P(X = 1) =$$

$$e^{-4.5}$$

$$+ (4.5) e^{-4.5} \quad 3)$$

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

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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

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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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142B Midterm

Exam 2 Solution

1. Let $f : \mathbb{R} \rightarrow \mathbb{R}$
be continuous.

Define $G(x) = \int_0^x (x-t)f(t)dt$

for all x : Use
the Second

Fundamental

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Theorem to show
that $G_{00}(x) =$
 $f(x)$ for all x .
(Hint: Use the

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lot harder than

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20D Fall 2008

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back Read each
question
carefully and
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work Answers
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functions of a
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