

### Fall 2006 Practice Math 102 Final Exam

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#### Fall 2006 Practice Math 102

Math 102. Fall 2006. Practice Final Exam 1 For  $f(x) = 1 - 7x - 3x^2$ , find (a)  $f(a)$ ; (b)  $f(a + h)$ ; (c)  $f(a + h) - f(a) / h$ , and simplify completely. Solution. (a)  $1 - 7a - 3a^2$ ; (b)  $1 - 7(a + h) - 3(a + h)^2$ ; (c)  $1 - 7a - 3h - 2$  Use transformations to sketch the graph of  $f(x) = 1 - x^2$ . Solution. 1 1-!!!! 2 3 For the quadratic function  $f(x) = 2x^2 - 4x + 3$ :

#### Math 102. Fall 2006. Practice Final Exam

Fall 2006 Practice Math 102 Final Exam 6  $x^2 + 4$  b. Analyze the function given by  $f(x) = \dots$  and

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sketch the graph, labelling everything.  $x^2 - 4$  Notice this function is EVEN:  $f(-a) = f(a)$  for every  $a$ . (Graph should be symmetric about the  $y$ -axis.) Horizontal asymptote at  $y = 1$  because  $y = 1$   $x^2 + 4 = 1 + 4/x^2 = 1 + 0$   $f(x) = 1/x^2$  as  $x \rightarrow \infty$ )

### Fall 2006 Practice Math 102 Final Exam

Math 102. Fall 2006. Practice 2nd Midterm 1 Solve  $x^2 - 1 \leq 1/x$ . Write your answer using interval notation. Solution.  $(0, 1) \cup [2, \infty)$  2 Let  $P(x) = 2x^3 - 5x^2 + 4x + 3$ . (i) List all the possible rational zeros of  $P$ . (ii) Verify that 3 is a zero of  $P$ . (iii) Find all other zeros of  $P$ . (iv) Find the complete factorization of  $P$ . Solution. (i)  $\pm 1, \pm 1/2, \pm 3, \pm 3/2$

### Math 102. Fall 2006. Practice 2nd Midterm

Math 102. Fall 2006. Practice 3rd Midterm 1 For the parabola defined by the equation  $x^2 - 4x = 8y - 28$ , determine the vertex, focus, and directrix and sketch the graph. 2 Write an equation for the parabola whose focus is  $(3, -1)$  and whose directrix is the line  $x = 1$ . 3 For the ellipse defined by the following equations, deter-

### Math 102. Fall 2006. Practice 3rd Midterm

Math 253, Section 102, Fall 2006 Practice Final 1. Determine whether the two lines  $L_1$  and  $L_2$  described below intersect. If yes, find the point of intersection. If not, say whether they are parallel or skew, and find the shortest distance between them. The line  $L_1$  is described by the equations  $x - 1 = 2y + 2, z = 4$ , and the line  $L_2$

### Math 253, Section 102, Fall 2006 Practice Final

Math 253, Section 102, Fall 2006 Practice Final Solutions 1. 2 1. Determine whether the two lines  $L_1$  and  $L_2$  described below intersect. If yes, find the point of intersection. If not, say whether they are parallel or skew, and find the shortest distance between them. The line  $L_1$

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### **Math 253, Section 102, Fall 2006 Practice Final Solutions**

Math 253, Section 102, Fall 2006 Practice Midterm Solutions Name: SID: Instructions • The total time is 50 minutes. • The total score is 100 points. • Use the reverse side of each page if you need extra space. • Show all your work. A correct answer without intermediate steps will receive no credit. • Calculators and cheat sheets are ...

### **Math 253, Section 102, Fall 2006 Practice Midterm ...**

Multivariable Calculus - Math 253, Section 102 Fall 2006 Solutions for Midterm Review Worksheet 1. If  $f(x,y) = (x^3 + y^3)^{1/3}$ , find  $f_x(0,0)$ . (Ans.  $f_x(0,0) = 1$ .) Solution. By the definition of partial derivative,  $f_x(0,0) = \lim_{h \rightarrow 0} \frac{f(0+h,0) - f(0,0)}{h} = \lim_{h \rightarrow 0} \frac{(h^3 + 0)^{1/3} - 0}{h} = \lim_{h \rightarrow 0} \frac{h}{h} = 1$ . 2. For each of the following, determine whether the limit exists.

### **Multivariable Calculus - Math 253, Section 102 Fall 2006 ...**

Math 102: College Mathematics Final Free Practice Test Instructions. Choose your answer to the question and click 'Continue' to see how you did. Then click 'Next Question' to answer the next question.

### **Math 102: College Mathematics - Practice Test Questions ...**

Math 102. College Algebra. Fall 2006 Class Number: 12954 Alberto Candel SN 430 Phone: 677-6512 (office), 677-2721 (math office) Email: alberto.candel@csun.edu Class meets: Mondays, Wednesdays and Fridays, 12:00 pm–12:50 pm in SQ104. Workshop meets: Monday, Wednesday and Fridays, 11:00 am–11:50 am in EH2021. (Workshop Teaching Assistant: Mioara Rosculete)

### **Math 102. College Algebra. Fall 2006**

Math 2370 – Fall 2008 . Practice Problems VI . Problem 1: Show that if  $S: \mathbb{R}^2 \rightarrow \mathbb{R}^2$  is a projection,

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then  $S = 0$ , or  $S$ , or there is a basis  $B$  such that the matrix representation of  $S$  with respect to

### **Math 2370 - Fall 2006**

MATH 102 : Applied Linear Algebra (Fall 2019) Announcements. The Final Exam will take place at 8am-11am on Monday, December 9 in CENTR 101. The syllabus is everything we have covered. ... A study guide and practice problems for the Final Exam have been posted. Homework 9, due 11pm Thursday, December 5, has been posted.

### **Math 102 Fall 2019**

Practice Integration Problems MATH 182: Fall 2006 The integrals practice problems on the following pages can all be evaluated using combinations of 1) The Method of Substitution 2) Integration by Parts 3) Trigonometric identities 4) Inverse Trigonometric Substitutions 5) Partial fraction expansions Some commonly used trigonometric identities are:

### **Practice Integration Problems MATH 182: Fall 2006**

Math 102 Sec 110 - Fall 2016 Midterm Practice 2 Name and Student #: Midterm Practice: 1. Let  $f(x) = (2x^4 - 3x^2) + 1$  and  $g(x) = x^3 + x^2$ . What is  $\lim_{x \rightarrow 0} g(f(x))$ ? 2. Give an example of each of the following: (a) A continuous function that is not differentiable at a local minimum:  $f(x) =$  (b) A function with a local maximum, such that  $f'(0)$  is non-negative ...

### **Midterm Practice - University of British Columbia**

MTH U121 Practice Quiz 3 Page 1 Name 1. Evaluate  $f(47)$  for the function  $f(x) = 4 + 7x^2 - 8x$ . Give your answer as a reduced fraction. 2. Simplify the difference quotient,

### **Practice Quiz 3 - Northeastern University**

Math 100 Section G - Fall 2006 Practice Final B 1. Is the following a function table? Explain why or

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why not.  $x^2 - 1$  0 1 1 2  $f(x) = 3x^3 - 2x^2 + 8x + 2$ . Given  $x = 2$  is a solution to  $ax^2 + b = 319$ , what is  $a$ ? 3. What is the slope of the line through  $(-1, 2)$  and  $(2, -3)$ ?

### **Math 100 Section G - Fall 2006 Practice Final B**

The course objective of Math 102 is to master an array of topics covered in a college math survey course, with an emphasis on algebra. Basic geometry and statistics are also covered. Grading Policy

### **Math 102: College Mathematics Course - Online Video ...**

Fall-2020 - Schedule of Classes MATH 102. Class Number Location Day Time; Top View Catalog Archives, Degree Road Maps and external resources here: Resources. California State University, Northridge 18111 Nordhoff Street, Northridge, CA 91330 Phone: (818) 677-1200 | Contact Us [www.csun.edu](http://www.csun.edu).

### **MATH 102. Pre-Calculus I (3) - CSUN University Catalog**

This section provides the exams from the course along with practice exams, review sheets, exam solutions. Also provided are the problem sets assigned for the course along with information on format, rules, and a key to notation.

### **Exams | Single Variable Calculus | Mathematics | MIT ...**

Math 2370 - Fall 2008 . Practice Problems VII . Due October 24 as a HOMEWORK . Problem 1: (a) Use the adjoint formula to compute the inverse of the following matrix:  $\begin{pmatrix} \theta & \theta & \theta & \sin 0 & \cos 0 \\ 1 & 0 & \cos 0 & 0 & \sin 0 \end{pmatrix}$  (b) Use Cramer's rule to solve the following system over the field of rational numbers:

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