Fall 2006 Practice Math 102 Final Exam

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Fall 2006 Practice Math 102
Fall 2006 Practice Math 102 Final Exam 6 x2 + 4 4b. Analyze the function given by f(x) =))))) and sketch the graph, labelling everything. x2 – 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 x2 + 4 1 + 4/ x 2 1 + 0 f(x) =))))) =))))) 6))))) as x 6 4

Fall 2006 Practice Math 102 Final Exam
Math 102. Fall 2006. Practice Final Exam 1 For f(x) =1 7x 3x2, find (a) f(a); (b) f(a +h); (c) f(a +h) f(a) h, and simplify completely. Solution. (a) 1 7a 3a2; (b) 1 7(a +h) 3(a +h)2; (c) 7 6a 3h 2 Use transformations to sketch the graph of f(x) =1 p 2 x. Solution. 1 1-'!!!! 2 3 For the quadratic function f(x) =2x2 4x 3:

Math 102. Fall 2006. Practice Final Exam
Math 102. Fall 2006. Practice 2nd Midterm 1 Solve x x −1 ≤ 1 x. Write your answer using interval notation. Solution. (0,1) 2 Let P(x) = 2x3 −5x2 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) ±1,±1/2,±3,±3/2

Math 102. Fall 2006. Practice 2nd Midterm
Math 253, Section 102, Fall 2006 Practice Final Solutions 1. 2 1. Determine whether the two lines L 1 and L 2 described below inter-sect. 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

Math 253, Section 102, Fall 2006 Practice Final Solutions
Math 253, Section 102, Fall 2006 Practice Final 1. Determine whether the two lines L 1 and L 2 described below inter-sect. 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, andthelineL

Math 253, Section 102, Fall 2006 Practice Final
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 ...
Math 253, Section 102, Fall 2006 Sample Problems from Week 4 Example 1 : Determine whether the following limits exist. If yes, find the limit. If not, justify. (i) lim (x,y)→(0,0) arctan − 1 x2 +y2 , (ii) lim (x,y)→(0,0) x4 −y4 x4 +x2y2 +y4, (iii) lim (x,y,z)→(0,0,0) sin 1 x 2+y +z2 . Solution. (i) Convert to polar coordinates; i.e., set r = p x2 +y2. Then

Math 253, Section 102, Fall 2006
Multivariable Calculus - Math 253, Section 102 Fall 2006 Solutions for Midterm Review Worksheet 1. If f(x,y) = (x3 +y3)13, find f x(0,0). (Ans. f x(0,0) = 1.) Solution. By the definition of partial derivative, f x(0,0) = lim h→0 f(0+h,0)−f(0,0) h = lim h→0 (h3 +0)13 h = lim h→0 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 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 pmŠ12:50 pm in SQ104. Workshop meets: Monday, Wednesday and Fridays, 11:00 amŠ11:50 am in EH2021. (Workshop Teaching Assistant: Mioara Rosculete)

Math 102. College Algebra. 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 Sec 110 - Fall 2016 Midterm Practice 2 Name and Student #: Midterm Practice: 1.Let f(x) = (2x4 3x2) 1 and g(x) = x3 + x2. What is lim x!0 g(f(x)) 2.Give an example of each of the following: (a)A continuous function that is not di erentiable at a local minimum: f(x) = (b)A function with a local maximum, such that f00(x) is non-negative ...

Midterm Practice - University of British Columbia
Practice Integration Problems MATH 182: Fall 2006 The integrals practice problems on the following pages can all be evaluated using combina-tions 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
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 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
Math 2370 – Fall 2008 . Practice Problems VI . Problem 1: Show that if S. 2 → : IR IR 2 is a projection, then . S =0 , or , or there is a basis . B. such that the matrix representation of . S. with respect to

Math 2370 – Fall 2006
MTH U121 Pra˝ice 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,

Pra˝ice Quiz 3 - Northeastern University

Math Computer Lab, JR254. (Hours—check schedule on door.) OR Math Computing Lab at SH272 Hours to be announced. M W R 10-5:30 T F 10-3 S 11-2 OR may use computers in the School's PC Lab in Citrus Hall 3320. Schedule Posted Adjacent to the door & HERE (page down for exceptions!). Need more help? Try the Learning Resource Center!

Math 102 NOTICES - California State University, Northridge

Math 2370 – Fall 2008 . Quiz #1 . Problem: Let X, Y and Z be subspaces of a linear vector space (not necessarily finite-dimensional). Show that ... Math 2370 – Fall 2006 Author: David Swigon Created Date: 9/2/2008 10:00:31 AM ...

Math 2370 – Fall 2006

Math 2370 – Fall 2008 . Practice Problems V . Problem 1: Let i:, →T X X = 1,2,..., i n be linear maps and = 1 2... T T T T. n. Show that if T is invertible then T T. 1 2, ,..., T. n are all invertible. Problem 2: Show that if X is a finite-dimensional space then the space of all linear maps of X into X is finite-dimensional. Find the ...

Math 2370 – Fall 2006

Math 2370 – Fall 2008 . Practice Problems II . Problem 1: Show that if vectors are linearly independent, so are vectors . ... Math 2370 – Fall 2006 Author: David Swigon Created Date: 9/2/2008 9:57:45 AM ...