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MATH 4310 Intro to Real Analysis Practice Final Exam Solutions 1. Find the limits of the following sequences. (a) s n = nx 1+n; x>0 Solution: s n!xsince jnx 1+n xj= 1 n+1 x!0. (b) s n = n(1 cos(x=n)); x>0 Solution: By Taylor remainder thm (Theorem 2.5.4), cos(x=n) = 1 2(x=n) =2+sin(c n)(x=n)3=6, for some c n 2(0;x=n). Thus, js nj= nj(x=n)2=2 sin(c

MATH 4310 Intro to Real Analysis
Math 312, Intro. to Real Analysis: Final Exam: Solutions Stephen G. Simpson Friday, May 8, 2009 1. True or false (3 points each). (a) For all sequences of real numbers (sn) we have liminf sn ≤ limsupsn. True.

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XExclude words from your search. Put - in front of a word you want to leave out. For example, jaguar speed -car. Search for an exact match. Put a word or phrase inside quotes. For example, "tallest building". Search for wildcards or unknown words. Put a * in your word or phrase where you want to leave a placeholder.

Exams | Real Analysis | Mathematics | MIT OpenCourseWare
Math 312, Intro. to Real Analysis: Midterm Exam #1 Solutions Stephen G. Simpson Friday, February 13, 2009 1. True or False (3 points each) (a) Every ordered field has the Archimedean property.

Math 312, Intro. to Real Analysis: Midterm Exam #1 Solutions
Solution: This is known as Bernoulli's inequality. Let a2R with a> 1. We proceed by induction. For n= 0, (1 + a)0 = 1 = 1 + (0)awhich is trivially true. Assume that the inequality is true for some k 0. Then (1 + a)k 1 + ka. Consider the case of k+1. Since a> 1, then 1+a>0. By assumption, (1+a)k 1+ka. Hence, (1+a)k+1 = (1+a)(1+a)k (1+a)(1+ka).

Math 4317 : Real Analysis I Mid-Term Exam 1 25 September 2012
4. (a) Suppose fn: A → R is uniformly continuous on A for every n ∈ N and fn → f uniformly on A. Prove that f is uniformly continuous on A. (b) Does the result in (a) remain true if fn → f pointwise instead of uni- formly? Solution. • (a) Let ϙ > 0. Since fn → f converges uniformly on A there exists N ∈ Nsuch that |fn(x) −f(x)| < ϙ 3 for all x ∈ A and n > N.

RealAnalysis Math 125A, Fall 2012 Sample Final Questions
FINAL EXAMINATION SOLUTIONS, MAS311 REAL ANALYSIS I 3 (ii) Show that sn ≤ 2 for all n. (Hint: Use induction again.) (5 marks) Proof. Once again, the case for n = 1 is easily true as s1 = √ 2 ≤ 2. Assuming the contention hold for n = k −1, then sk = q 2+ √ sk−1 ≤ √ 2+2 = 2, where the inequality above follows from the induction hypothesis.

FINAL EXAMINATION SOLUTIONS, MAS311 REAL ANALYSIS I ...
Solution: (a): Since x2n tends to +∞ when |x| > 1 and converges to 0 when |x| < 1 we obtain the pointwise limit F(x) = 0 if |x| > 1 1 2 if |x| = 1. 1 if |x| < 1 (b): Any compact subset A of (−1,1) is contained in a closed interval [−a,a], for some a ∈ [0,1).

Ph.D. QUALIFYING EXAM IN REAL ANALYSIS
Math 4317 : Real Analysis I Mid-Term Exam 2 1 November 2012 Name: Instructions: Answer all of the problems. De nitions (1 point each) 1.For a sequence of real numbers fs ng, state the de nition of limsups n and liminf s n. Solution: Let u N = supfs n: n>Ngand l N = inffs n: n>Ng. Then limsup n!1 s n= lim N!1 u N and liminf n!1 s n= lim N!1 l N:

Math 4317 : Real Analysis I Mid-Term Exam 2 1 November 2012
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Math 405: Introduction to Real Analysis
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INTRODUCTION TO REAL ANALYSIS - Trinity University
Exam Schedule. Unless otherwise noted, the exams will be held each year according to the following schedule: Autumn Quarter: The exams are held during the week prior to the first week of the quarter. Spring Quarter: The exams are held during the first week of the quarter. Algebra: Tuesday, 9:30am-12:30pm and 2:00-5:00pm Real Analysis: Friday, 9:30am-12:30pm and 2:00-5:00pm

PhD Qualifying Exams | Mathematics
REAL ANALYSIS PRELIMINARY EXAM March, 2019 INSTRUCTIONS: Do as many of the eight problems as you can. Four completely correct solutions will be a pass; a few complete solutions will count more than many partial solutions. Always carefully justify your answers. If you skip a step or omit some

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An Introduction to Classical Real Analysis, Karl R. Stromberg, AMS Chelsea Publishing, 2015 Course Description ... Practice material for the final: Final exam Spring 2011 (with solutions), Practice final Fall 2013 (with solutions), Final exam Fall 2014, and Final exam Fall 2015. Review session: Monday December 12, from 3:00pm to 5:00pm, in 509 ...