HEATHER LYNETTE RAMSEY

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EDUCATION

Master of Science, Mathematics

Texas A&M University, 2004

Bachelor of Science, Applied Mathematical Sciences

Texas A&M University, 2002
Summa Cum Laude honor graduate

EMPLOYMENT

Instructional Assistant Professor, Texas A&M University, Department of Mathematics, Sept. 2014 to Present

Instructor for undergraduate mathematics courses. **Duties:** same as duties when Senior Lecturer, along with additional service activities at the University, College and Departmental levels.
Immediate Supervisor: Dr. Jennifer Whitfield, Assistant Department Head for APT Faculty Affairs, (979) 845-3623, jwhitfld@math.tamu.edu

Senior Lecturer, Texas A&M University, Department of Mathematics, June 2012 to Aug. 2014

Instructor for undergraduate mathematics courses. **Duties:** create and maintain a course website each semester, present all lectures of course material, write original quizzes and exams, hold regular office hours, assign homework via an online homework system, serve on departmental committees, advise undergraduate math and applied mathematical science majors
Immediate Supervisor: Dr. Yvette Hester, Assistant Department Head for Lecturer and Freshmen Affairs, (979) 845-3623, hester@math.tamu.edu

Instructor, Blinn College, Brenham Campus, Division of Mathematics, Aug. 2011 to May 2012

Instructor for freshman-level and basic skills mathematics courses. **Duties:** present all lectures of course material, write original quizzes and exams, assess student learning and advise students of their progress toward meeting course objectives, hold regular office hours, participate in professional development activities, serve on Math Division and Blinn College district-level committees.
Immediate Supervisor: Randal Hoppens, Division Chair, (979) 830-4186, rhoppens@blinn.edu

Instructor, Copper Mountain College, Aug. 2010 to May 2011

Instructor for freshman-level and basic skills mathematics courses. **Duties:** present all lectures of course material, write original quizzes and exams, assess student learning and advise students of their progress toward meeting course objectives, hold regular office hours, participate in professional development activities, serve on Faculty Senate committees, participate in program review, attend and participate in academic and District meetings.
Immediate Supervisor: Cheryl Munsey, Vice President for Academic Affairs, (760) 366-4246 ext. 5245, cmunsey@cmccd.edu

Senior Lecturer, Texas A&M University, Department of Mathematics, Sept. 2009 to July 2010

Instructor for freshman-level mathematics courses. **Duties:** create and maintain a course website each semester, present all lectures of course material, write original quizzes and exams, hold regular office hours, assign homework via an online homework system, serve as course coordinator for multi-instructor courses, serve on textbook and curriculum development committees.
Immediate Supervisor: Dr. G. Donald Allen, Associate Department Head, (979) 845-7950, dallen@math.tamu.edu

Lecturer, Texas A&M University, Department of Mathematics, Aug. 2004 to Aug. 2009

Instructor for freshman-level mathematics courses. **Duties:** create and maintain a course website each semester, present all lectures of course material, write original quizzes and exams, hold regular office hours, assign homework via an online homework system, serve as course coordinator for multi-instructor courses. **Immediate Supervisor:** Dr. G. Donald Allen, Associate Department Head, (979) 845-7950, dallen@math.tamu.edu

Instructor, Blinn College, Bryan Campus, Division of Mathematics, Summers 2004 to 2008

Instructor for freshman-level mathematics courses. **Duties:** write original quizzes and exams, hold regular office hours, assign homework via MyMathLab online homework system. **Immediate Supervisor:** Ron Hammond, Division Chair, (979) 209-7390, rhammond@blinn.edu

Teaching Assistant, Texas A&M University, Department of Mathematics, Jan. 2004 to May 2004

Teaching Assistant for MATH 152 – Engineering Calculus II. **Duties:** lead computer laboratory and recitation periods, create and maintain a course website, work all suggested homework problems to prepare for recitation, write original quizzes and Maple laboratory assignments.

Instructor of Record, Texas A&M University, Department of Mathematics, Sept. 2003 to Dec. 2003

Instructor for MATH 141 – Business Mathematics I. **Duties:** create and maintain a course website, write original quizzes and exams, hold regular office hours, assign online homework via BCA system.

Actuarial Analyst Intern, Watson Wyatt Worldwide, Dallas, TX, Retirement Practice, June 2003 to Aug. 2003

Work in teams to complete data cleansing, asset reconciliation, liability calculations, benefit calculations, as well as funding and FAS 87 expense valuation reports.

Teaching Assistant, Texas A&M University, Department of Mathematics, Sept. 2002 to May 2003

Teaching Assistant for MATH 151 and 152 – Engineering Calculus I and II. **Duties:** lead computer laboratory and recitation periods, create and maintain a course website, work all suggested homework problems to prepare for recitation, write original quizzes and Maple laboratory assignments.

Student Worker, Texas A&M University, Department of Mathematics, Undergraduate Programs Office, Aug. 2000 to Aug. 2002

Preliminary advisor for freshmen and transfer students at summer New Student Conferences, give presentations on undergraduate degree plans and career options for math majors, manage student records for the Undergraduate Programs Office.

Recitation Leader, Texas A&M University, Department of Mathematics, July 2001 to Aug. 2001

Recitation leader for MATH 150 – Functions, Trigonometry, and Linear Systems.

TEACHING EXPERIENCE

Texas A&M University, Department of Mathematics, Aug. 2004-July 2010 and May 2012 to Present

During my time at Texas A&M University, I have taught the following courses. In addition to my regular duties, for MATH 147, 148, and 150 (course descriptions are below), I also supervised graduate teaching assistants. My involvement in the supervision of these courses is described in Teaching Service.

MATH 131: **Mathematical Concepts – Calculus.** Limits and continuity; rates of change, slope, differentiation: the derivative, maxima and minima; integration: the definite and indefinite integral; integration techniques; curve fitting.

MATH 141: **Business Mathematics I – Finite Mathematics.** Linear equations and applications, systems of linear equations, matrix algebra and applications, linear programming (graphical method), probability and applications, statistics.

MATH 142: **Business Mathematics II – Calculus.** Derivatives, curve sketching and optimization, techniques of derivatives, logarithms and exponential functions with applications, integrals, techniques and applications of integrals, multivariate calculus.

MATH 147: **Calculus I for the Biological Sciences.** Introduction to differential and integral calculus in a context that emphasizes applications in the biological sciences. Limits, continuity, the derivative,

differentiation techniques and applications, integration, integration techniques and applications.

MATH 148: **Calculus II for the Biological Sciences.** Introduction to integral and multivariate calculus in a context that emphasizes applications in the biological sciences. Integration techniques and applications; solving systems of ordinary differential equations; topics in linear algebra and analytic geometry; functions of several variables, differentiability, and applications; solving systems of difference equations.

MATH 150: **Functions, Trigonometry, and Linear Systems – Pre-calculus.** Graphs, functions, college algebra and trigonometry, linear systems and vectors

MATH 166: **Topics in Contemporary Mathematics.** Topics in finite mathematics, including logic, set theory, probability, counting principles, statistics, matrices, Markov chains, and game theory.

MATH 325: **The Mathematics of Interest.** The mathematical theory associated with interest; annuities, internal rate of return, coupon bonds, valuation of noncallable bonds, yield of maturity, interest rate sensitivity, duration and convexity, reinvestment risk, total return, compound return, STRIPS, yield curve, short selling, hedge ratio, bond swaps.

MATH 419: **Applications of Actuarial Science.** Applications of actuarial science using mathematical and statistical methods to assess risk in the insurance and finance industries; emphasis on probability, statistics, finance, and economics; focus on using probabilistic models in the estimation of insurance premiums

MATH 420: **Applications of Actuarial Science II.** Use of mathematical and statistical methods to price various financial instruments, such as bonds; understanding how the term structure of interest rates affects the price of these instruments.

Blinn College, Brenham Campus, Division of Mathematics, Aug. 2011-May 2012

MATH 0309: **Pre-algebra.** Fundamental operations of arithmetic on the rational numbers system, including an emphasis on signed number arithmetic, solving simple linear equations, and percent applications.

MATH 0312: **Intermediate Algebra.** Factoring rules, rational expressions, rational exponents, radicals, complex numbers, inequalities, absolute value inequalities, quadratic equations, linear systems, and equations with radicals, rational expressions, and exponents.

Copper Mountain College , Aug. 2010-May 2011

MATH 057: **Pre-algebra.** Operations on whole numbers, integers, whole number exponents, decimals and fractions; solving basic equations, an introduction to graphing and statistics, basic algebraic problem solving, the Pythagorean Theorem, and order of operations; ratios and proportions, percent, the metric system including conversion of units and elementary geometry concepts.

MATH 050: **Elementary Algebra.** Properties of the real numbers, arithmetic of variable expressions including polynomials and algebraic fractions, solving linear equations and inequalities in one variable, factoring, and an introduction to the Cartesian coordinate system.

MATH 040: **Intermediate Algebra.** Evaluating, solving and graphing linear, quadratic and exponential functions; solving systems of linear equations; simplifying rational exponents; solving radical equations and quadratic inequalities; and applications of these concepts.

Blinn College, Bryan Campus, Division of Mathematics, Summers 2004-2008

MATH 1324: **Math Analysis I – Finite Mathematics.** Linear functions and graphs, matrices, inequalities and linear programming, simplex algorithm, mathematics of finance, probability, sets, counting techniques, statistics, central tendency, standard deviation, and applications in all areas.

MATH 1325: **Math Analysis II – Calculus.** Quadratic, exponential, and logarithmic functions, limits, differentiation of functions, curve sketching and optimization, techniques of derivatives, integration techniques including indefinite and definite integrals, multivariate calculus, and applications.

TEACHING & SERVICE AWARDS

Department of Mathematics Outstanding Service Award, Texas A&M University, 2013

Student Led Award for Teaching Excellence, Texas A&M University, Fall 2008, Spring 2010

Department of Mathematics Outstanding Teaching Award, Texas A&M University, 2008

Outstanding Teaching Assistant Award, Texas A&M University, Department of Mathematics, May 2003

TEACHING SERVICE, TEXAS A&M UNIVERSITY

Math 485 – Directed Studies Supervisor, Fall 2017

I supervised 9 students who earned credit for this course by successfully completing an actuarial internship in the summer of 2017. I spoke with their employers in May 2017 to discuss expectations and again in August 2017 to determine if those expectations were met. Students were then required to write a 9-12 page report in which they summarized their experiences and explained how mathematics was used in their internships.

Course Coordinator

As course coordinator, it was my responsibility to ensure that all instructors teaching a particular course cover the same material at the same pace and at an equivalent level of difficulty. I accomplished this by reviewing all instructors' syllabi and exams and providing feedback and suggestions when necessary.

MATH 131: Spring 2008 (coordinated 4 instructors)

MATH 141: Spring 2006 (7 instructors), Fall 2007 (10 instructors)

MATH 166: Fall 2006 (4 instructors), Spring 2007 (3 instructors), Fall 2008 (5 instructors)

Week-in-Review Instructor

As Week-in-Review instructor, it was my responsibility to create and post to the web a problem set for each week's lecture material in a particular course. Students from all sections of the course (not just my own students) were encouraged to attend this weekly two-hour review session in which I worked the problems that I had posted.

MATH 131: Spring 2008

MATH 141: Spring 2006

MATH 142: Spring 2009, Summer 2009

MATH 166: Fall 2006, Spring 2007, Fall 2008

DEPARTMENTAL AND UNIVERSITY SERVICE, TEXAS A&M UNIVERSITY

Academic Advising

Senior academic advisor for all undergraduate mathematics majors, June 2017 to present

My responsibilities include reviewing degree plans in Howdy, submitting course adjustments and curricular exceptions to make adjustments to students' degree plans, performing degree audit checks for graduating seniors, meeting regularly with our majors and students from other departments who are interested in math for general course advising and career counseling, reviewing probation and dismissal cases with the Assistant Dean for Student Affairs of the College of Science, meeting with prospective students and parents, and co-leading summer and spring New Student Conferences for new math and applied math majors.

College of Science's lead advisor for University Studies—Math for Pre-professionals and Math for Business degrees, June 2017 to present

My advising responsibilities here are similar to those listed above. However, most students who request to change majors into USSC are students who are in academic trouble with their previous degree. As such, their cases are often difficult, requiring special care to make sure all adjustments are made and the best plan for success is established for each student.

Lead academic advisor for Applied Mathematical Science majors with an emphasis in actuarial science, economics, and statistics and for all other students (TAMU and non-TAMU) who are interested in actuarial science, August 2012 to present

> In addition to meeting with students for advising, it is also my responsibility to make sure that Texas A&M University maintains its UCAP (University & Colleges with Actuarial Programs) designation with the Society of Actuaries. This involves submitting paperwork to the SOA to verify that TAMU offers courses for each VEE (Validation by Educational Experience) component of the Associate of the Society of Actuaries credentialing process.

Academic advisor for new freshmen and transfer undergraduate mathematics majors, May 2009 to July 2010 and May 2012 to present

> Benjamin Aurispa and I co-lead all New Student Conference advising meetings for incoming freshman and transfer students who are majoring in math or applied math. We work with students and their parents to ensure that our new majors feel welcomed and prepared for their first semester at Texas A&M University by offering personalized one-on-one advising.

Math Department's Regents Scholars advisor, Spring 2017

> I met individually with nine Regents Scholars for 30 minutes every week to discuss class progress, review course material, and provide help with any academic issues they faced.

Faculty advisor of Aggie Actuaries Club, August 2012 to May 2015

> I helped coordinate eight to ten evening club meetings each semester, the majority of which had guest speakers from different actuarial firms, including Aon Hewitt, Lexis Nexis, Fidelity Investments, DW Simpson, Mercer, EY (formerly Ernst & Young), Willis Towers Watson, AIG, Buck Consultants, Bain & Company, USAA, Forethought Life Insurance Company, Lewis and Ellis, Cigna Supplemental Benefits, and Houston Casualty Company (now Tokio Marine HCC). Attendance averaged about 30 students per meeting.

Curriculum Development

Member of the College of Science Undergraduate Programs Committee, Spring 2015 to present

> This committee helps review course and program-level changes within the College of Science and in other colleges within Texas A&M University by monitoring CARS (Curricular Approval Request System) as needed.

Member of the Math Department Undergraduate Studies Committee, Fall 2012 to present

> This committee meets twice per month to discuss departmental undergraduate programs, course offerings, teaching assignments, curriculum development, and outreach programs.

Member of rubric design committee for Empirical and Quantitative Reasoning component for University Core Curriculum Recertification, Spring 2015

Modified Math 419 – Applications of Actuarial Science I, Fall 2013

> I changed the focus of this course to specifically prepare students for Exam P, the first actuarial exam which covers probability.

Developed Math 420 – Applications of Actuarial Science II, Fall 2013

> Using study materials written by Dr. May Boggess as a guide, I designed this course to prepare students for Exam FM, the second actuarial exam which covers financial mathematics and market derivatives. Significant credit also goes to Dr. Boggess for creation of the online homework problem sets that are used in Math 419 and Math 420.

Assisted Dr. Michael Stecher in the creation of Math 225 – Advanced Spreadsheet Techniques, Fall 2012

> Using feedback that I collected from actuarial employers, we designed this course to teach students the fundamentals of spreadsheet use in actuarial work.

Chair of MATH 166 Curriculum Committee, Dec. 2006 to May 2007

> The charge of this committee was to modify the weekly schedule and coverage of topics to distinguish Math 166 – Topics in Contemporary Mathematics, from Math 141 – Business

Mathematics I. Prior to our work on this committee, the two courses were identical. I also worked with Dr. Janice Epstein to compile and edit problem sets within ThompsonNOW (an online homework system that predates WebAssign) for all Math 166 instructors.

Member of Finite Mathematics Textbook Search Committee, Sept. 2005 to May 2006

Web Sites

Course home page for all semesters: http://www.math.tamu.edu/~ramsey/

Teaching materials webpage, including links to Week-in-Review websites and course lecture outlines: http://www.math.tamu.edu/~ramsey/teachingmaterials.html

Presentations

"Using Smart Notebook to Improve Classroom Instruction," an informal one-hour seminar for faculty in the Math Department in which I shared my knowledge and strategies for using Smart Notebook to enhance presentation of lecture material, October 23, 2014 and November 13, 2014

"Creating Graded Videos Using Camtasia," with Benjamin Aurispa, International Conference on Technology in Collegiate Mathematics (ICTCM) in New Orleans, LA, Mar. 14, 2009

"Markov Processes," promotion talk, Department of Mathematics, Sept. 24, 2008

"Basic Sympodium Skills Workshop," a one-hour seminar on using technology in the classroom, Department of Mathematics, Jan. 12, 2007

Grants Funded

THECB (Texas Higher Education Coordinating Board): "Course Redesign for Math 1324," PI and director: G. Donald Allen, co-PI Janice Epstein, $349,827, July 20, 2007 – Aug. 31, 2009, TAMRF #0701594. Role: Authoring and video developer, homework system design assistant

> The goal of this grant was to create a hybrid version of a finite mathematics course in which students watched streaming video lectures online before coming to class. This would then allow instructors to use class time to answer questions, do group work, and do interactive, hands-on activities to make mathematics more fun and interesting for their students. My role in this project was to create tutorial videos that provided a more detailed look at topics that traditionally give students trouble in lecture. I created over 60 videos, all of which are still in use today in some sections of Math 141.

Consulting

Credited textbook reviewer for *Calculus for Biology and Medicine*, Third Edition, by Claudia Neuhauser, Prentice Hall 2011, July 2014

Textbook reviewer for *Modeling the Dynamics of Life: Calculus and Probability for Life Scientists*, Second Edition, by Frederick Adler, Brooks/Cole 2004, April 2010

Online homework system content update, ThomsonNOW/Brooks-Cole, Spring 2006 to Summer 2006

Volunteer Work – K-12 and University Outreach

Volunteer at Aggieland Saturday, Feb. 16, 2013, Feb. 14, 2015, Feb. 11, 2017, Feb. 10, 2018, and Feb. 9, 2019

> At this annual event, I speak with junior high and high school students and their parents about majoring in mathematics and career possibilities as a math major.

Math Booth volunteer, Physics Festival, hosted by Department of Physics, Apr. 15, 2007 and Apr. 1, 2017

Volunteer at Annual Derivative Bee, hosted by Department of Mathematics, Nov. 8, 2012, Nov. 12, 2013, and Nov. 11, 2014

Volunteer at Annual Integral Bee, hosted by Department of Mathematics, Feb. 28, 2013

Grader at High School Math Contest, hosted by Department of Mathematics, 2000, 2001, 2002, 2004, 2006, 2007, 2009

Volunteer at Summer Educational Enrichment in Math (SEE Math), an enrichment program for middle school children hosted by Department of Mathematics, July 2007

Additional Departmental Service

Elected member of Department Head Search Advisory Committee, Spring 2019

Course equivalence evaluator for mathematics courses transferred to TAMU from other colleges and universities for all TAMU students, June 2017 to present

> Whenever any student at Texas A&M University takes a math course from another institution that transfers by title only or is interested in taking a math course that does not appear in the TAMU transfer equivalence database, I am the person who is contacted to determine course equivalence. I have reviewed over 400 syllabi since taking over this job from Dr. Tom Vogel on June 1, 2017.

Member of the Scholarship Committee, Spring 2014 to present

> This committee reviews applications for all departmental undergraduate scholarships. This requires reading 50-60 pages of students' essay responses to scholarship prompts and carefully considering both academic merit and financial need.

Elected member of the Academic Professional Track Committee, Fall 2012 to Spring 2015

> This committee met at least twice per semester to discuss issues pertaining to academic professional track faculty, including the progress being made toward creating instructional professor titles and fairness in teaching loads and assignments. We also read student evaluations of APT faculty and prepared a summary to help Dr. Hester, Assistant Head for Lecturer and Freshman Affairs, write annual performance evaluations of all APT faculty. Also, I was personally assigned to perform classroom visits and teaching evaluations for two of my peers as part of my work on this committee.

Mentor for graduate students serving as instructors of record, Fall 2006 to May 2010 and Summer 2013

> I met weekly with these graduate students to discuss the topics they would be teaching in the coming week and to offer guidance on classroom management, development of teaching materials and lectures, and exam preparation.

Additional Service at the College Level

Member of the College of Science Undergraduate Programs Committee, Faculty Senate Representative appointed by Dr. Timothy Scott, January 2015-present

> The main duties of this committee include reviewing all No Grade requests for the College of Science. Students who have experienced an extraordinary hardship outside of their control which affected their performance in classes during a particular semester can submit a No Grade request package. The UPC must then read the full package to determine whether the NG is warranted. This committee also helps review course and program-level changes in CARS (Curricular Approval Request System).

Member of the College of Science Dean Search Advisory Committee, elected by the faculty of the College of Science, Apr. 2014 to May 2015

Additional Service at the University Level

Member of Faculty Senate Executive Committee, elected by my peers on Faculty Senate, May 2019 to present

Senator for the College of Science in the TAMU Faculty Senate, elected by the faculty of the College of Science, Sept. 2013 to Aug. 2016 and April 2019 to present

> The Faculty Senate meets monthly to promote shared governance in all University and System affairs by maintaining open lines of communication between the faculty of Texas A&M University and the TAMU System Administration.

Senator for the College of Science in the TAMU Faculty Senate, selected by College of Science Caucus members to replace a senator who declined his elected position, Sept. 2018 to April 2019

Member of the Academic Affairs Committee, a standing committee of the Faculty Senate, Oct. 2014 to Aug. 2016 and Sept. 2018 to present

Member of ad-hoc committee of the Faculty Senate charged with investigating the partnership between TAMU and CHI St. Joseph Health, Mar. 2019 to present

Member of the University Disciplinary Appeals Panel, appointed by the Texas A&M University President, Oct. 2013 to May 2015

Member of the Workplace Climate and Diversity Committee, a standing committee of the Faculty Senate, Oct. 2013 to Aug. 2014

Member of the 2015 Presidential Professor of Teaching Excellence Selection Committee, Spring 2015

Member of Faculty Senate Honor Council Subcommittee, Sept. 2008 to July 2010

Student Mentor, Aggie Women in Leadership, Sept. 2006 to May 2007

DIVISION AND COLLEGE SERVICE, BLINN COLLEGE

District-level Service

Member of the Professional Development Committee, a committee that reviews and approves faculty applications for funding to attend professional development activities, Sept. 2011 to May 2012

Curriculum Development, Division of Mathematics

Member of committee charged with developing a fast-track program for developmental mathematics students, Oct. 2011 to May 2012

COLLEGE AND DISTRICT SERVICE, COPPER MOUNTAIN COLLEGE

Subcommittees of the Academic Senate

Academic Integrity: Integral contributor to the development of the Coyote Honor Council, an honor system for uniform adjudication of cases of alleged academic dishonesty, Sept. 2010 to May 2011

Educational Technology: Elected as co-chair. We meet to discuss faculty needs and training with regard to classroom and online teaching technology. Sept. 2010 to May 2011

District-Level Committees

Flex: Contributor of ideas for faculty and staff training activities, Sept. 2010 to May 2011

Technology: Elected as faculty representative of the Academic Senate. Author of three components of the District's Technology Master Plan, Sept. 2010 to May 2011

Presentations

"Processes of the Honor Council," Flex training presentation given on behalf of the Academic Integrity Committee, Jan. 13, 2011

"SMART Board Use to Enhance Lecture," with Tony Thacker, Staff Development Day, Jan. 14, 2011

"SMART Board Training for All Disciplines," Flex training presentation, March 8, 2011

"Producing Videos with Camtasia," faculty training presentation, May 7, 2011

Other Service

Faculty representative to meeting with the McCallum Group, a consulting firm hired to evaluate Copper Mountain College's technology infrastructure, Dec. 7, 2010

Co-author of exit test questions for basic skills math classes to assess student learning outcomes, Dec. 2010

Co-editor of math course outlines of record, Spring 2011

HONORS

Dean's Scholar, Texas A&M University, College of Science, 2002 to 2003

President's Endowed Scholar, Texas A&M University, 1998 to 2002

Academic Achievement in Mathematics Award, Texas A&M University, Department of Mathematics, 2001

Dean's Honor Roll, Texas A&M University, Dec. 1998, Dec. 1999, May 2000

HONOR SOCIETY MEMBERSHIPS

Phi Kappa Phi, 2001

Golden Key National Honor Society, 2000

National Society of Collegiate Scholars, 1999

Phi Eta Sigma, 1999

Pi Mu Epsilon, 1999

SKILLS

Actuarial

Society of Actuaries Course 1, passed May 2003

Computer Languages and Software

Camtasia Studio, basic HTML, LaTeX, Maple, Microsoft Office (Word, Excel, PowerPoint), SMART Notebook Software, TI Interactive

Online Homework Systems

BCA/iLrn/ThomsonNOW/CengageNOW, Math Zone, MyMathLab/MathXL, WebAssign