

AFTERMATH

A Presentation and Discussion about Fourth Year Math Classes

MEAD 2012

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Warm-Up

- Work on your own or with a partner on the handout

Background

- Introduction to QA (misnomer)
- G-TEAMS
- Worked with U of A math department to develop class
- Purposes
 - Improve problem solving skills
 - Prepare non-calculus students for college placement

Problem Solving

- Selected “Problem Solving – Crossing the River With Dogs” from Key Curriculum
- Concentrated on this first semester
- Develop problem solving skills and leverage this for second semester

College Algebra Placement Preparation

- ALEKS
 - Used by U of A for placement and college algebra
- Deployed as homework all year
- Quantity (3 hours every two weeks)
- Quality (mid-term and final)
- Cost/accessibility issues

Second Semester

Introduction to QA

- Programming (Python)
 - Project Euler
 - Apply programming skills to S2 topics
- Financial Mathematics (FEFE.arizona.edu)
- Data Analysis
- Trigonometry

Changes for Next Year

- Break the class into stand alone semesters
 - Problem Solving
 - College Algebra
- Break Pre-Calculus into stand alone semesters
 - College Algebra
 - Pre-Calculus/Trigonometry

Arizona Mathematics Graduation Requirements

- Present (2012) is 3 years
 - Algebra I, Geometry, and an additional course with significant math content as determined by district governing boards or charter schools.
- Next year (2013) is 4 years
 - Algebra I, Geometry, Algebra II (or its equivalent), and an additional course with significant math content as determined by district governing boards or charter schools.

Fifth Year Course Ideas

- Finite Math
- Statistics (Josh Tabor's book of sports stats)
- Probability
- AP Statistics
- Modeling
- Advanced Mathematical Decision Making
- See IME (http://ime.math.arizona.edu/2007-08/1013_fourthyear.html)

Discussion

- What are you and your school doing?
- What ideas do you have?

Thank you for coming & participating

Please fill out an evaluation form
before you leave....