



WeBWorK

Authoring WeBWorK questions

New WeBWorK features

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<http://webwork.maa.org/wiki>

<https://hosted2.webwork.rochester.edu/webwork2/HKUST101>

Topics over view



- Walk through
 - <https://hosted2.webwork.rochester.edu/webwork2/HKUST10x>
 - login: profa password: profa
- New question types
- Authoring questions
 - Using the PGproblemEditor
 - Finding information on the wiki
 - MathObjects, contexts and more

Walk through

- Standard examples (Demo)
- MathAchievements - show types & editor
- ☒ MathView entry
- ☒ Course configuration
- ☒ Library
- Print hardcopy (use Demo set)

New Question types

<https://hosted2.webwork.rochester.edu/webwork2/HKUST10x>

- Standard questions: Demo set and MAA2011 tutorial are good examples
 - 5, 8, 10, 11, 12
- Geogebra examples: Demo/13 and GraphicalLOP
- Flash applet examples: Cleveland State Applets
- LinearInequality example: WordtoLOP set, problem 1
- Essay question examples: dev13MTH208/WBVWK1/problem1&2
- Drag and drop questions: Ordering proofs and relations/
- Scaffolded questions: sequential questions set
- Sagelets: sage set
- Graphical input: graphical input set and Demo/11, 12
- About applet problems
 - Java applets and flash applets will not work easily on all devices

Authoring questions



- Using the PGproblemEditor
- MathObjects:Tutorial https://testcourses.webwork.maa.org/webwork2/PREP14_Problem_Authoring/Workshop2
 - Math objects reference: <http://webwork.maa.org/wiki/Category:MathObjects>
 - Context()
 - Using PGlab
- Finding information
 - Author section of the wiki: <http://webwork.maa.org/wiki/Authors>
 - Problem techniques section: http://webwork.maa.org/wiki/Problem_Techniques
 - Subject area templates: http://webwork.maa.org/wiki/Category:Subject_Area_Templates
 - POD documentation:

- John Travis has led the effort to create these collections of suitable homework sets for a given course.
- Obtaining information about modelCourses
 - wiki pages: http://webwork.maa.org/wiki/Model_Courses
 - Many of the courses are still “under construction”

Gateway quizzes

☒ https://math.webwork.rochester.edu/webwork2/fall10mth164b/quiz_mode/ww02quiz/

- <https://math.webwork.rochester.edu/moodle>
 - Show spring I 4mth I 64: set2 problem 20
 - Show statistics and student progress for sets 5 and I 2
- <https://hosted2.webwork.rochester.edu/moodle/>

Grade essay questions

- <https://hosted2.webwork.rochester.edu/webwork2/dev13MTH208/WBWK1/>

- https://devel2.webwork.rochester.edu/webwork2/2014_HKUST_demo/
- The most noticeable change in WeBWorK3 is the instructor user interface. It now uses AJAX calls and incremental saving to give a completely different look and feel to the instructor interface.