

What's new in WeBWork

EAMS Conference

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WeBWork

- WeBWork is a open-source online homework system
 - There are about 60,000 contributed problems in mathematics, physics, engineering, chemistry.
 - It is used throughout the world (about 10 languages)
 - Version 2.17 will be released this summer
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What's new in WeBWork?

Webwork/User Interface

- New look (bootstrap v. 5)
 - Improved mobile UX
 - Easier to create a custom theme
- Accessibility improvements
- Quizzes are easier to use
 - Auto-submit
 - Confirmation dialogs
- Ability to view Contrib problems
- LTI enhancements
 - Controlled navigation
 - Course-level customization
 - Better quiz navigation

Problem Authoring/PG

- Drag/Drop problems
- Graph Tool
- MathQuill improvements

Library Browser

Add problems to **Target Set:**

Select a Set from this Course ▾

Edit Target Set

Create a New Set in This Course:

New set name

Browse

Open Problem Library

Local Problems

From This Course

Set Definition Files

or Problems from

Contrib

OPL Directory

Subject:

All Subjects ▾

Advanced Search

Chapter:

All Chapters ▾

Section:

All Sections ▾

View Problems

Display Mode:

MathJax ▾

Max. Shown:

20 ▾

Include OPL

Include Contrib

Hints

Solutions

There are 37520 matching WeBWorK problems

Add All

Clear Problem Display

MAIN MENU

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Course Configuration

- General
- Optional Modules
- Permissions
- Problem Display/Answer Checking
- E-Mail
- LTI

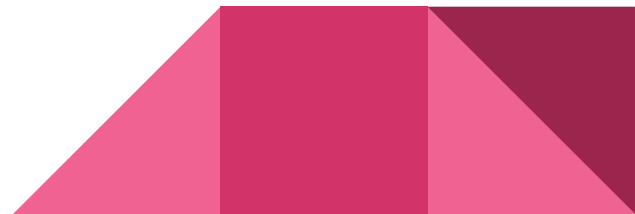
LTI

Setting	Default	Current
The name of the LMS ?	MWSU Canvas	<input type="text" value="MWSU Canvas"/>
A URL for the LMS ?	https://missouriwestern.instructure.com/	<input type="text" value="https://missouriwestern.instructure.com/"/>
Require users to log in through the LMS ?	False	<input type="text" value="False"/> ▼
Grade passback mode ?	None	<input type="text" value="None"/> ▼
Allow the LMS to update user account data ?	True	<input type="text" value="True"/> ▼
Show LTI parameters (for debugging) ?	False	<input type="text" value="False"/> ▼

Demo

Graph Tool examples

- Asks students to graph for the solution.
- Ability to input circles, points, parabolas, cubics, lines and regions.
- Example:
 - Plot the parabola $(x-3)^2+1$
 - Plot the region bounded by $x \geq 1$, $y \leq 5$, $2x+3y = 6$.



MathQuill input

- Need to change the Course Configuration -> Problem Display -> Assist Student answers to **MathQuill**
- Handles keyboard input (square roots/powers, pi) as well as button input
- Updated to handle units.



Summer Plans

Get Involved!

- WeBWorkK3 status – code camp on Thursday, June 16
 - WeBWorkK3 demo
 - Other code camps coming this summer (get on distribution list)
 - Join slack channel
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More Information

- <https://openwebwork.org>
 - <https://github.com/openwebwork/webwork2>
 - pstaab@fitchburgstate.edu
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