

Getting started with WeBWork for QCC faculty

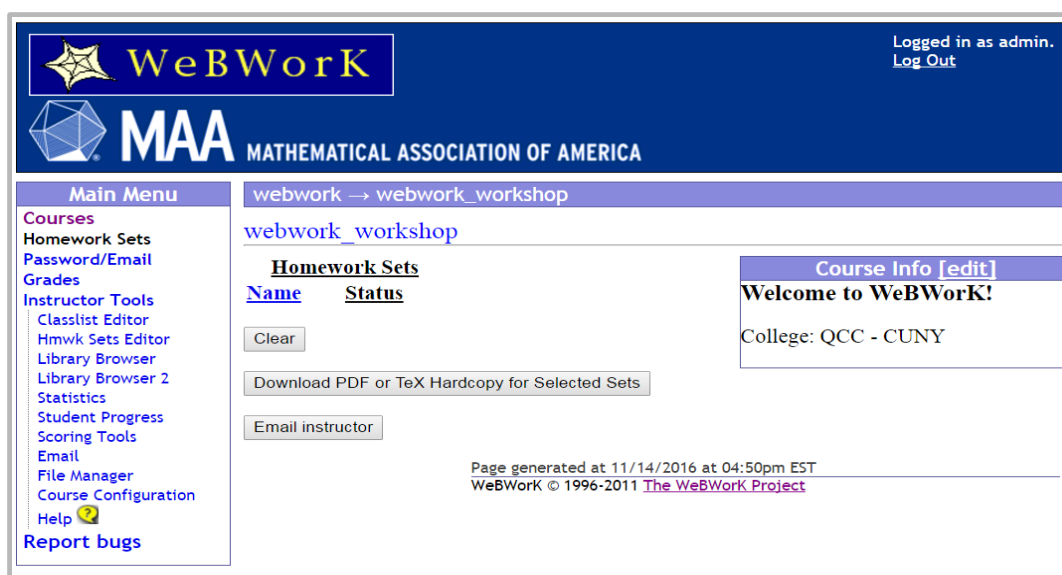
By E. Dabkowska & B. Sosnovski

Setting up a course

In order to set up a new course please send an email to: webwork@qcc.cuny.edu or email one of us directly with the course information.

Logging in

Go to <http://webwork.qcc.cuny.edu/webwork2> and select your course from the list. You will be prompted for a username and password. After logging in, you will be taken to the main page.



The screenshot displays the WeBWork interface. At the top, there is a blue header with the WeBWork logo and the MAA (Mathematical Association of America) logo. The user is logged in as 'admin.' with a 'Log Out' link. Below the header, there is a 'Main Menu' on the left side with various options like 'Courses', 'Homework Sets', 'Grades', 'Instructor Tools', etc. The main content area shows the 'webwork → webwork_workshop' page. It features a 'Homework Sets' section with a table with columns 'Name' and 'Status'. There are buttons for 'Clear', 'Download PDF or TeX Hardcopy for Selected Sets', and 'Email instructor'. A 'Course Info [edit]' box on the right displays 'Welcome to WeBWork!' and 'College: QCC - CUNY'. At the bottom, there is a footer with the page generation date and time, and the WeBWork copyright information.

Homework Sets – shows the list of assigned homework sets you have created. Does not show sets you are in the process of creating. This is where students will go to access their assignments.

Grades – this is where your students will click to see their progress on all assignments.

Hmwk Sets Editor – allows you to access, edit, and create homework sets, whether or not they have been deployed.

Library Browser – gives you access to over 28,000 problems indexed by subject, topic and/or textbook.

Scoring Tools – go here to download a spreadsheet (.csv file) of student grades on selected assignment(s).

Classlist Editor

To upload an **entire class roster**, please email us at the beginning of the semester so we can send you the program for converting a CUNYFirst roster to a WeBWork class list format.

To **individually add** students please follow the following:

Click **Classlist editor** in the left margin

Select **add “2” student(s)** - you can change the number of students to add to the number you wish to add.

Click **Take Action!** Button.

Classlist Editor

Select an action to perform:

- Show users who match: [] in their [Login Name] []
- Sort by [Last Name] [], then by [First Name] [], then by [Login Name] []
- Edit [selected users] []
- Give new password to [selected users] []
- Import users from file [demoCourse.lst] [] replacing [no] [] existing users and adding [any] [] new users
- Export [visible users] [] to a new file named: [] .lst
- Add 2 student(s).**
- Delete [no users] [] *Deletion destroys all user-related data and is not undoable!*

[Select all users] [Unselect all users]

[Take Action!]

Showing 1 out of 1 users.

Select	Login Name	Login Status	Assigned Sets	First Name	Last Name	Email Address	Student ID	Status	Section	Recitation	Comment	Permission Level
<input type="checkbox"/>	admin	active	0/0	Administrator	Webwork	webwork@qcc.cuny.edu	admin	Enrolled (C)				professor

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Fill in the student information with student's login name set to the first letter of their first name, followed by their last name (use all lowercase letters and without any space).

Set the password to their student QCC id number.

Add Users

Enter information below for students you wish to add. Each student's password will initially be set to their student ID.

[Create] 2 entry rows.

Last Name	First Name	Student ID	Login Name	Email Address	Section	Recitation	Comment
Smith	John	1234	jsmith	jsmith@tigermail.qcc.cuny.edu	H34Z	Fall 2016	
Cole	Jessica	5678	jcole	jcole@tigermail.qcc.cuny.edu	H34Z	Fall 2016	

To individually **delete** students please follow the following:

Click **Classlist editor** in the left margin.

Select students you wish to delete.

Select **delete** and from the drop-down menu **selected users** option.
Click **Take Action!** button.

Showing 3 out of 3 users.

Select	Login Name	Login Status	Assigned Sets	First Name	Last Name	Email Address	Student ID	Status	Section	Recitation
<input type="checkbox"/>	jcole	inactive	0/0	Jessica	Cole	jcole@tigermail.qcc.cuny.edu	5678	Enrolled (C)	H34Z	Fall 2016
<input checked="" type="checkbox"/>	jsmith	inactive	0/0	John	Smith	jsmith@tigermail.qcc.cuny.edu	1234	Enrolled (C)	H34Z	Fall 2016
<input type="checkbox"/>	admin	active	0/0	Administrator	Webwork	webwork@qcc.cuny.edu	admin	Enrolled (C)		

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Creating an assignment

There are several ways you can create the homework sets.

Click **Library Browser** in the left margin.

The box **Name for New Set Here** replace it with the homework name you want to create, then click on the button **Create the New Set in This Course**.

Now that you have created an empty homework assignment, let's add some problems to it.

Option 1

In the **Browse** section, click on **National Problem Library**.

Then select a subject from the drop-down menu to further refine your search.

As an example, select the subject **Algebra**, Chapter **Functions**, Section **Domain and Range**.

To view problems in that category, click on **View Problems**

To add problems to the set, simply select **Add this problem to the target set on the next update**.

Once you are done selecting problems to be added, you need to click on **Update Set** button in order to include the problem(s) into your assignment. A green status message in the upper right corner of the screen will indicate that you successfully added problems to the set.

The screenshot shows the 'Library Browser' interface. At the top, there is a dropdown menu for 'Add problems to Target Set' set to 'HW_1'. Below this are search filters for 'Subject' (Algebra), 'Chapter' (Functions), and 'Section' (Domain and range). A red circle highlights these three dropdown menus. To the right of the filters, there are buttons for 'View Problems', 'Display Mode' (Images), 'Max. Shown' (20), 'Hints', and 'Solutions'. Below the filters, it states 'There are 158 matching WeBWorK problem files'. A red circle highlights the 'Update Set' button in the top right corner of the problem list area. Below the 'Update Set' button, there are two radio button options: 'Don't show this problem on the next update' and 'Add this problem to the target set on the next update'. A red arrow points to the second option. Below the options is a graph of a function on a coordinate plane. The x-axis ranges from -10 to 10, and the y-axis ranges from -4 to 10. The graph shows a curve starting at (-4, 0) and increasing to the right. Below the graph, there is a question: 'What is the domain of this function?' with four multiple-choice options: A. all real numbers except -4, B. all real numbers greater than or equal to 0, C. all real numbers, and D. all real numbers greater than or equal to -4.

Advanced Search allows you to search by textbook, chapter and section.

Option 2

In the **Browse** section, click on **Local Problems**.

We have coded questions for MA10 into WeBWorK format. You can access these by selecting from the drop-down menu to further refine your search.

To view / add problems to the set, follow the instructions in Option #1.

Here you can also access an **Orientation** problem set to introduce your students to navigating within WeBWorK and entering mathematics.

Option 3

In the **Browse** section, click on **From This Course**.

Here you can add questions from assignments you have already created. For example, in your review assignment you may want to use the some problems from HW1, HW2, etc. The problems

from previous assignments you select now, will appear in a different version. From **Browse From** drop-down menu select the assignment from which you wish to add questions and follow the steps in Option #1 on how to view / add problems to the set.

Option 4

Click **Hmwk Sets Editor** in the left margin.

Select **Import** (This allows to import already made problem sets that are assigned to your account from someone else/previous course/ etc. For example, Bob told you that he created homework sets for MA119, you can ask us to create you a course using Bob's pre-made homework assignments which you will find here.)

From drop-down menu **either single set or multiple sets** option depending on how many assignments you want to import.

Click **Take Action!** Button.

The screenshot shows the 'Hmwk Sets Editor' interface. At the top, a breadcrumb trail reads 'webwork → webwork_workshop → instructor tools → Hmwk Sets Editor'. Below this, a green banner says 'Please select action to be performed.' The main area is titled 'Select an action to perform:' and contains several radio buttons and dropdown menus. The 'Import' radio button is selected. The 'Import' dropdown is set to 'multiple sets'. A file selection dialog is open, showing a list of files: 'set0.def', 'setDemo.def', 'setMAAtutorial.def', and 'setOrientation.def'. The 'Take Action!' button is highlighted with a red arrow. Other options include 'Show', 'Primary sort', 'Secondary sort', 'Edit', 'Make', 'Export', 'Score', and 'Delete'.

Editing your problem set

Go into the **Hmwk Sets Editor**.



The small **pencil icon** to the right of the set name allows you to edit global properties of the homework set.

There you can change:

- visibility (whether or not students can see that the set exists)
- open date (when the students will first be able to see the set)
- due date
- answer date (when the solutions will be made available)

You must choose **Save changes** and click the **Take Action!** button for your changes to affect the given homework set.

Showing 2 out of 2 sets.

Select	Edit Set Data	Edit Problems	Edit Assigned Users	Visible	Reduced Credit Enabled	Open Date	Due Date
<input type="checkbox"/>	HW_Sample_Questions_for_Final_Exam 	6	1/3	Yes	No	11/21/2016 at 05:44pm EST	11/28/2016 at 05:44pm
<input type="checkbox"/>	HW_1 	1	1/3	Yes	No	11/21/2016 at 05:46pm EST	11/28/2016 at 05:46pm

Please select action to be performed.

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Hmwnk Sets Editor Please select action to be performed.

Any changes made below will be reflected in the set for ALL students.

Select an action to perform:

Abandon changes

Save changes

Showing 1 out of 2 sets.

Edit All Set Data	Visible	Enable Reduced Credit	Open Date	Due Date	Answer Date
HW_Sample_Questions_for_Final_Exam	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11/21/2016 at 05:44pm EST	11/28/2016 at 05:44pm EST	12/05/2016 at 05:44pm EST

Please select action to be performed.

You can click on the number of problems in the **Edit Problems** column to change or add specific problems.

Common tasks you can accomplish within this editor include:

- making same changes as using **pencil icon**
- trying or editing a problem (opens a new window)
- reordering the problems (via the drop-down number in the “problems” column)
- reweighting the problems (default is each problem worth 1 point)
- changing the maximum number of student attempts allowed (default is unlimited)
- deleting a problem from your homework set

Showing 2 out of 2 sets.

Select	Edit Set Data	Edit Problems	Edit Assigned Users	V
<input type="checkbox"/>	HW_Sample_Questions_for_Final_Exam	6	1/3	Y
<input type="checkbox"/>	HW_1	1	1/3	Y

Please select action to be performed.

Page generated at 11/15/2016 at 12:57pm EST
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webwork → webwork_workshop → instructor tools → hmwk sets editor → Set Detail for set HW_Sample_Questions_for_Final_Exam

Set Detail for set HW_Sample_Questions_for_Final_Exam

This set HW_Sample_Questions_for_Final_Exam is assigned to 1 student. Edit [individual versions](#) of set HW_Sample_Questions_for_Final_Exam.

Any changes made below will be reflected in the set for ALL students.

Save Changes Reset Form

General Information

Opens: 11/21/2016 at 05:44pm EST

Answers Due: 11/28/2016 at 05:44pm EST

Answers Available: 12/05/2016 at 05:44pm EST

Visible to Students: Yes

Reduced Credit Enabled: No

Assignment type: homework

Headers Display Mode: None Refresh Display

Set Header: ASimpleCombinedHeaderFile.pg

Hardcopy Header: ASimpleCombinedHeaderFile.pg

Problems	Data	Display Mode: images Refresh Display
1 Edit it Try it <input type="checkbox"/> Delete it? <input type="checkbox"/> Mark Correct?	Weight: 1 Max attempts: 1	Source File: MA10/wksp/smpl/sp1A.pg (0 pts) Simplify: $2\sqrt{2} - 5\sqrt{72}$ <input type="radio"/> A. $-28\sqrt{2}$ <input type="radio"/> B. $28\sqrt{2}$ <input type="radio"/> C. $4 - 10\sqrt{6}$ <input type="radio"/> D. $-178\sqrt{2}$
2 Edit it Try it <input type="checkbox"/> Delete it?	Weight: 1 Max attempts: unlimited	Source File: MA10/wksp/smpl/sp2A.pg (0 pts) Simplify completely: $\sqrt{2}(\sqrt{22} - 4\sqrt{2})$ <input type="radio"/> A. $4\sqrt{11}$

It is possible to administer quizzes and proctored quizzes via WeBWork in addition to homework sets.

Viewing submitted student answers

If you click on the name of a homework set in the above menu, you will see a list of the problems contained in that set. You can then click on a specific problem and then select “Show past answers” to see all of the answers submitted by a particular student.

WebWork MAA MATHEMATICAL ASSOCIATION OF AMERICA

Logged in as admin. Log Out
Acting as [redacted] Stop Acting

webwork → bsoosnovski → ma10_homework_1 → 1

MA10 Homework 1: Problem 1 [Prev] [Up] [Next]

This set is visible to students.

(2 pts)

Add as indicated:

a) $-4 + (-5) = 9$

b) $-7 + 7 = 0$

Note: You can earn partial credit on this problem.

Edit this problem

Show correct answers

You have attempted this problem 2 times
Your overall recorded score is 100%.

The homework set is closed.

Show Past Answers

Email instructor

This set is visible to students.

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WebWork MAA MATHEMATICAL ASSOCIATION OF AMERICA

Logged in as admin. Log Out
Acting as [redacted] Stop Acting

webwork → bsoosnovski → instructor tools → Answer Log

Answer Log

Past Answers for [redacted] Set: MA10_Homework_1 Problem: 1

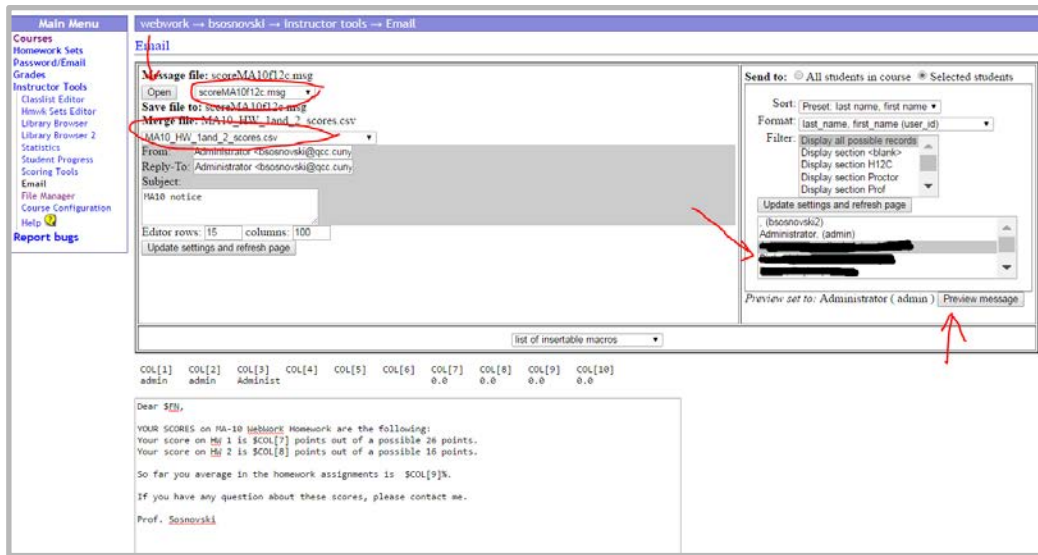
Past Answers for [redacted], set MA10_Homework_1, problem 1

User	Set	Problem
[redacted]	MA10_Homework_1	1
8 Sep 2016		
12:54:00	-9	0
13:03:01	-9	0

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Grading

To download a spreadsheet of all student scores, go to **Scoring Tools**. Use the CTRL key to select multiple problem sets, then enter a name for your spreadsheet .csv file. After you click the button to **save**, a link will appear that allows you to download the file and open it with your spreadsheet software.



“Email instructor” button can be used by students to ask for help at any point during a problem set. WeBWorK will send you an email detailing the question details and including the student’s specific question/comment to you about a given problem. Below is a sample of student feedback from WeBWorK. Note the number of student attempts is given, as well as the random seed used to generate this student’s version of the problem. (This is sometimes necessary for troubleshooting.) The feedback message from the student is shown below in bold.

webwork → bsosnovski → ma10_homework_1 → 3
 MA10 Homework 1: Problem 3

(1 pt)

Perform the addition. Give your answer in the lowest term.
ATTENTION: You can attempt to submit your answer for a score only once in this problem!!!

$$\frac{4}{5} + \frac{21}{5} =$$


A. 4
 B. 5
 C. $\frac{25}{5}$
 D. 6
 E. None of the above

[Edit this problem](#)

Show correct answers

You have attempted this problem 1 time.
 Your overall recorded score is 100%.
 This homework set is closed.

Mon 10/31/2016 5:10 PM

 **[REDACTED]** <**[REDACTED]**@TIGERMAIL.QCC.CUNY.EDU>
[WWfeedback] course:bsosnovski user:**[REDACTED]** set:MA10_Homework_4_Review_for_Exam_2 prob:

To: Sosnovski, Bianca; Sosnovski, Bianca; Dabkowska Ewa

i This message has been replied to or forwarded.
 We removed extra line breaks from this message.

[Action Items](#)

This message was automatically generated by the WeBWorK system at <http://webwork.qcc.cuny.edu/webwork2/>, in response to

Click this link to see the page from which the user sent feedback:
[http://webwork.qcc.cuny.edu/webwork2/bsosnovski/MA10_Homework_4_Review_for_Exam_2/?effectiveUser=\[REDACTED\]](http://webwork.qcc.cuny.edu/webwork2/bsosnovski/MA10_Homework_4_Review_for_Exam_2/?effectiveUser=[REDACTED])

**** The feedback message: ****

Dear Professor Sosnovski,
 I attempted to do problem 10 but there is technical difficulties with this problem. Every time i attempt to open this problem
 Please contact me as soon as possible with additional help on how to fix this issue.
 Thank You in advance, **[REDACTED]**

**** Data about the user: ****

User ID: tbrown
 Name: **[REDACTED]**
 Email: **[REDACTED]**@TIGERMAIL.QCC.CUNY.EDU
 Student ID: **[REDACTED]**
 Status: Enrolled ('C')
 Section: H12C
 Recitation: Fall 2016
 Comment:

**** Data about the homework set: ****

Set ID: MA10_Homework_4_Review_for_Exam_2
 Set header file: ASimpleCombinedHeaderFile.pg
 Hardcopy header file: ASimpleCombinedHeaderFile.pg
 Open date: 10/26/2016 at 11:46am EDT
 Problem ID: 11/02/2016 1:12:58 EDT

Useful Resources

General info on the WeBWorK system

<http://webwork.maa.org> A detailed wiki with information for both students and instructors. Includes video tutorials for instructors

<http://webwork.maa.org/moodle/> This site includes links to forums discussing various features of WeBWorK.

Help for writing your own problems

<http://webwork.maa.org/wiki/Category:Authors> This page gives of links addressing a variety of tasks from general to specific.