WeBWorK Instructor's Quick Start Guide

Rob Lam, Academic Coordinator Department of Mathematics

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- Supported courses include college algebra, trigonometry, pre-calculus, single and multivariable calculus, differential equations, probability and statistics, linear algebra, and complex analysis.
- WeBWorK's homework database is best used for single variable calculus.

 Since WeBWorK is not textbook based, you may not be able to find the exact problems as the ones in your textbook. Also, the library contains a large number of problems so browsing through them could be very time consuming. For example, a search on the chain rule returns over 370 problems.

WeBWork Homework Models

- Therefore, to make the program easier to use, model courses with homework problems similar to those in your textbook have been created. You have the option to:
 - Use the model as is;
 - Modify the model in any way you like; or
 - Create your own assignments.

Before Classes Begin

- If your course uses WeBWorK, the Academic Coordinator will set up your WeBWorK course before classes begin.
- Once your WeBWorK course has been setup, you will receive an email notification with a link to your course as well as your login information.

Login Information

- Our WeBWorK courses are here:
- https://webwork.ucr.edu/webwork2

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- Instructors will receive their login information from the Academic Coordinator.
- For TA's and students, their login name is their NetID (iLearn username) and the default password is their student ID (SID) number.

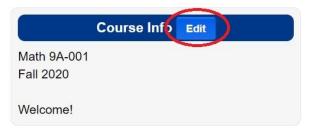
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- For TA's and students, their login name is their NetID (iLearn username) and the default password is their student ID (SID) number.
- After logging in, you can change your password by clicking on the password/email link.

Editing Course Information

MATH_009A_DEMO_20F

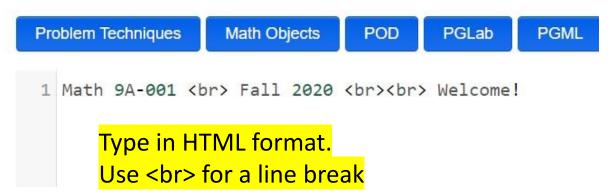
Homework Sets				
Name	Status			
□ 0.1 INTRODUCTION TO WEBWORK	Will open on 12/27/2020 at 06:00am PST.			
☐ 1.1 AN INTRODUCTION TO LIMITS	Will open on 12/30/2020 at 06:00am PST.			
1.2 EPSILON DELTA DEF OF A LIMIT	Will open on 12/30/2020 at 06:00am PST.			
☐ 1.3 FINDING LIMITS ANALYTICALLY	Will open on 12/30/2020 at 06:00am PST.			



Editing Course Information

Course Information for course

Editing course information in file '[TMPL]/course_info.txt'



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- Please feel free to direct your students to contact the Academic Coordinator directly for access or technical issues.
- Alternatively, if you like, you can also add the student(s) yourself.



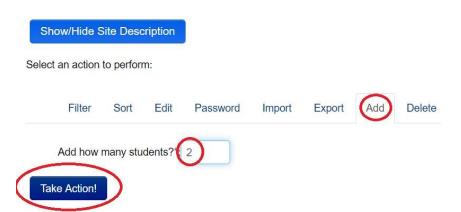
MATH_009A_DEM

0.1 INTRODUCTION TO WEBWORK 1.1 AN INTRODUCTION TO LIMITS

Adding Newly Enrolled Students

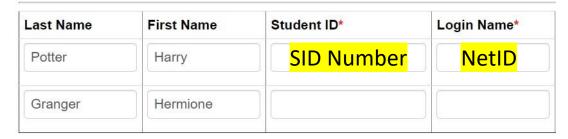
- To add students
 manually, click on
 "Classlist Editor" on the
 left-hand control panel of
 your homepage.
- Select the "Add" tab and enter the number of students you want to add.

Classlist Editor



Name

- You can find your student's NetID and SID number from the Grade Center on iLearn.
- You only need to complete the first 4 boxes.
- You can assign homework to the new students on the same screen.



Select sets below to assign them to the newly-created users.

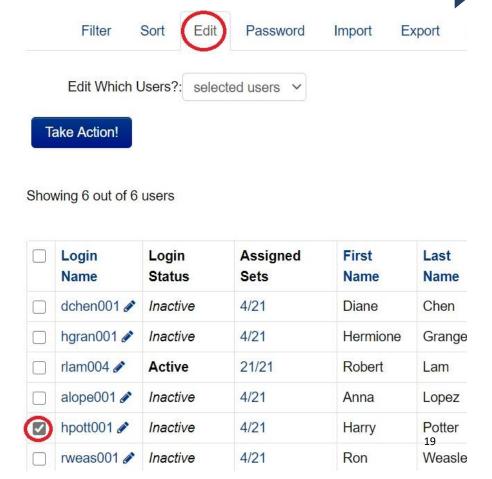
0.1_INTRODUCTION_TO_WEBWORK
1.1_AN_INTRODUCTION_TO_LIMITS
1.2_EPSILON_DELTA_DEF_OF_A_LIMIT
1.3_FINDING_LIMITS_ANALYTICALLY
1.4_ONE_SIDED_LIMITS
1.5_CONTINUITY
1.6_LIMITS_INVOLVING_INFINITY
2.1_2.2_THE_DERIVATIVE_AND_ITS_INTERPRETATIONS
2.3_BASIC_DIFFERENTIATION_RULES
2.4_THE_PRODUCT_AND_QUOTIENT_RULES

Adding TA's on WeBWorK

- The TA's of your course are by default added to your WeBWorK roster when your course is created.
- Sometimes (for example, when TA's trade their sections) you may have to add a TA manually.
- First add your TA as a student by following the above procedures.

Adding TA's on WeBWorK

- Access your roster from the "Classlist Editor".
- Go to the "Edit" tab and select the user who is your TA.



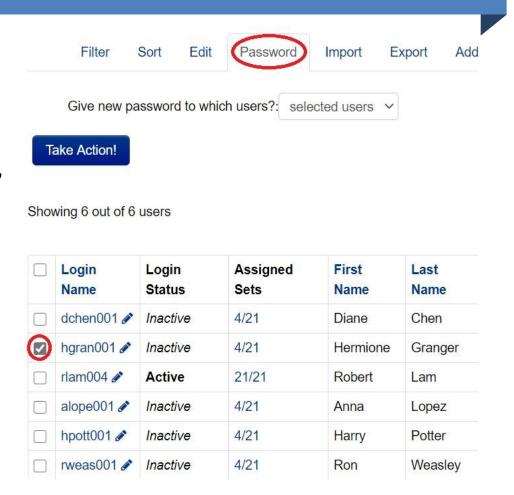
Adding TA's on WeBWorK

 Click on the drop-down menu on the farright column and change the permission level from student to TA.



Resetting Passwords

• If your students or TA's forget their passwords, you can reset them in the "Password" tab of the "Classlist Editor".



Resetting Passwords

Save Password

Cancel Password

Save changes

Take Action!

Showing 1 out of 6 users

If a password field is left blank, the student's current password will be maintaine

New Password	Login Name	First Name	Last Name
New Password:	hgran001	Hermione	Granger
New_Password			

Resetting Passwords

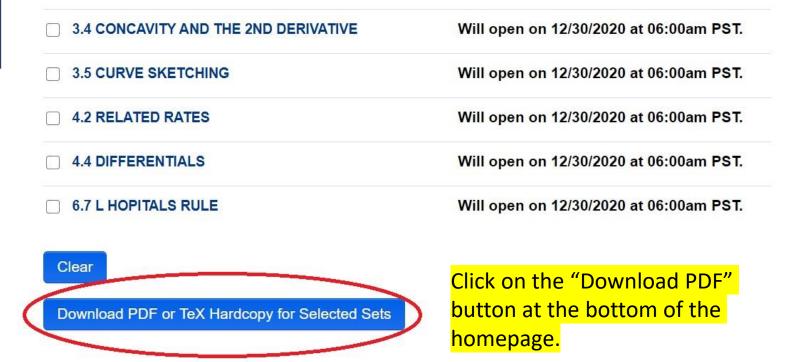
 If you (the instructor) forget your password, you'll have to contact the Academic Coordinator to have him reset it for you.



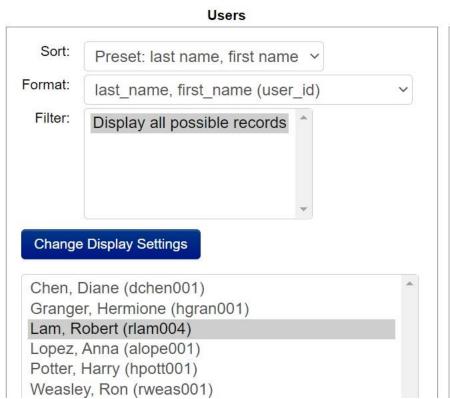
Viewing the Problems of a HW Set

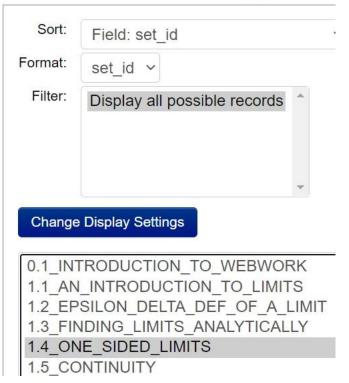
Homework Sets					
Name	Status				
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☐ 1.4 ONE SIDED LIMITS Click on a link to view the exercises	Will open on 12/30/2020 at 06:00am PST.				
□ 1.5 CONTINUITY of a homework set	Will open on 12/30/2020 at 06:00am PST.				
☐ 1.6 LIMITS INVOLVING INFINITY	Will open on 12/30/2020 at 06:00am PST.				
☐ 2.1 2.2 THE DERIVATIVE AND ITS INTERPRETATIONS	Will open on 12/30/2020 at 06:00am PST.				
2.3 BASIC DIFFERENTIATION RULES	Will open on 12/30/2020 at 06:00am PST.				

Printing a Homework Set



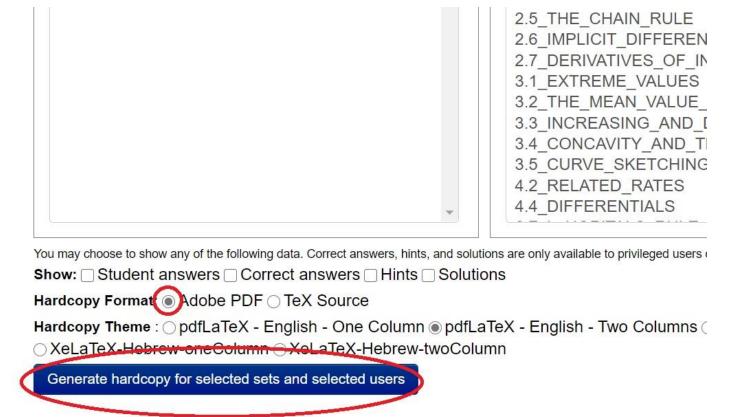
Printing a Homework Set





Sets

Printing a Homework Set





MAIN MENU

Courses

Homework Sets

User Settings

Grades

Instructor Tools

Classlist Editor

Hmwk Sets Editor

Library Browser

Statistics

Student Progress

Scoring Tools

Email

File Manager

Homework Management

 All your homework managements are done in the "Homework Sets Editor" located on the control panel on the left-hand side of your screen.

Create a New Homework Set

To create a new homework set, go to the "Create" tab and create "a new empty set". Enter the name of the assignment under "Name of the new set". Please note that spaces are not allowed, and you need to use underscores for spaces, for example, "The_Chain_Rule".



Changing the Dates of a HW Set

 Click on the pencil icon on that set and then change the dates and times on the next screen.

Edit Assigned

Edit

Euit Set Data	Problems	Users	VISIDIC	Open Date	Close Date	Allswei Date
0.1 INTRODUCTION TO WEBWORK 🎤	7	6/6	Yes	12/27/2020 at 06:00am	12/27/2020 at 06:00am	12/27/2020 at 06:00am
1.1 AN INTRODUCTION TO LIMITS 🖋	15	6/6	Yes	12/30/2020 at 06:00am	12/30/2020 at 06:00am	12/30/2020 at 06:00am
1.2 EPSILON DELTA DEF OF A LIMIT 🎤	2	6/6	Yes	12/30/2020 at 06:00am	12/30/2020 at 06:00am	12/30/2020 at 06:00am
1.3 FINDING LIMITS ANALYTICALL	21	6/6	Yes	12/30/2020 at 06:00am	12/30/2020 at 06:00am	12/30/2020 at 06:00am
1.4 ONE SIDED LIMITS /	12	1/6	Yes	12/30/2020 at 06:00am	12/30/2020 at 06:00am	12/30/2020 at 06:00am
1.5 CONTINUITY 🖋	15	1/6	Yes	12/30/2020 at 06:00am	12/30/2020 at 06:00am	12/30/2020 at 06:00am
1.6 LIMITS INVOLVING INFINITY 🖋	17	1/6	Yes	12/30/2020 at 06:00am	12/30/2020 at 06:00am	12/30/2020 at 06:00am

Visible Open Date

Close Date

30

Answer Date

Edit Set Data

Changing the Dates of a HW Set

- By default, all sets are visible.
- Click on the calendar icons to change the dates and times.



Save changes



Showing 1 out of 21 sets.

Set List							
Edit Set	Visible	Open Date		Close Date		Answer Date	
1.3 FINDING LIMITS ANALYTICALLY		12/30/2020 at 06:00am		12/30/2020 at 06:00am		12/30/2020 at 06:00am	

Assigning Homework

Edit Set Data	Edit Problems	Edit Assigned Users
0.1 INTRODUCTION TO WEBWORK 🎤	7	6/6
1.1 AN INTRODUCTION TO LIMITS 🎤	15	6/6
1.2 EPSILON DELTA DEF OF A LIMIT 🎤	2	1/6
1.3 FINDING LIMITS ANALYTICALLY 🖋	21	1/6
1.4 ONE SIDED LIMITS 🖋	12	1/6
1.5 CONTINUITY 🎤	15	1/6

Users Assigned to Set 1.3

Assign to All Current Users This action

his action can take a long tim

Do not uncheck students, unless you know what you are doing There is NO undo for unassigning students.

When you unassign by unchecking a student's name, you dest then need to reassign the set to these students and they will re

Assigned	Login Name	Student Name	Section	Close
	dchen001	(Chen, Diane)		
	hgran001	(Granger, Hermione)		
~	rlam004	(Lam, Robert)		
	alope001	(Lopez, Anna)		

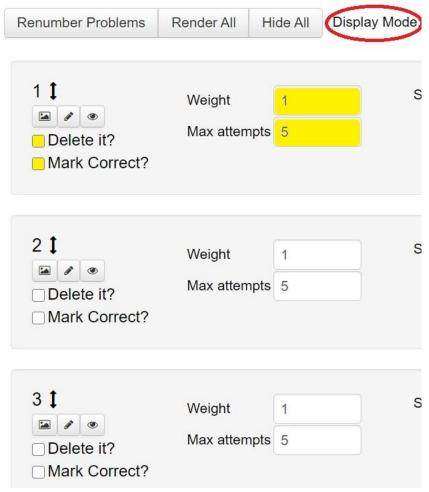
Editing a Homework Set

 Click on the link corresponding to the homework set under the "Edit Problems" column to delete or mark a problem correct, change the weight or number of attempts, or to reorder the problems.

Edit Set Data	Edit Problems	Edit Assigned Users
0.1 INTRODUCTION TO WEBWORK 🎤	7	6/6
1.1 AN INTRODUCTION TO LIMITS 🔊	15	6/6
1.2 EPSILON DELTA DEF OF A LIMIT 🧪	2	1/6
1.3 FINDING LIMITS ANALYTICALLY 🎤	21	6/6
1.4 ONE SIDED LIMITS 🖋	12	1/6
1.5 CONTINUITY 🎤	15	1/6

Editing a Homework Set

 Make the applicable changes on this page.



Granting Extensions

 In the "Classlist Editor" click on the link under the "Assigned Sets" column next to the student's name.

Login Name	Login Status	Assigned Sets	First Name	Last Name
dchen001	Inactive	3/21	Diane	Chen
hgran001 🖋	Inactive	3/21	Hermione	Granger
rlam004 💣	Active	21/21	Robert	Lam
alope001	Inactive	3/21	Anna	Lopez
hpott001	Inactive	3/21	Harry	Potter
rweas001 🎤	Inactive	3/21	Ron	Weasley

Granting Extensions

- Click on the calendar icon to change the dates of the closing date and answer date (if applicable).
- Be sure that the box next to any changed field is checked.



Sets assigned to Hermione Granger (hgran001)							
Assigned	Edit set for hgran001		Dates				
		Open:	None Specified	#	09/01/2020 at 06:00am		
✓	0.1_INTRODUCTION_TO_WEBWORK	Closes:	09/16/2020 at 11:59pm	#	09/10/2020 at 11:59pm		
		Answer:	09/17/2020 at 06:00am	#	09/15/2020 at 06:00am		

Modifying HW scores and Criteria for One Student

In the "Homework Set Editor, under the "Edit
Assigned Users" column, click on the link
corresponding to the homework set to be modified.

Edit Set Data	Edit Problems	Edit Assigned Users
0.1 INTRODUCTION TO WEBWORK 🎤	7	6/6
1.1 AN INTRODUCTION TO LIMITS 🎤	15	6/6
1.2 EPSILON DELTA DEF OF A LIMIT 🧪	2	6/6
1.3 FINDING LIMITS ANALYTICALLY 🎤	21	6/6
1.4 ONE SIDED LIMITS 🖋	12	1/6
1.5 CONTINUITY 🎤	15	1/6

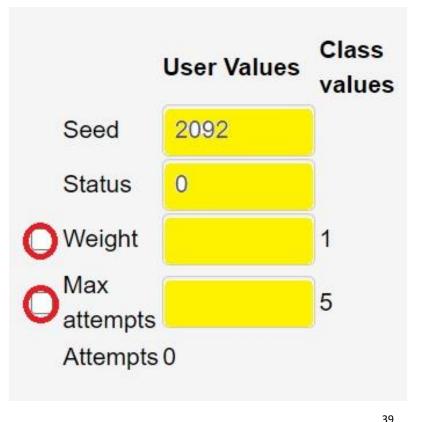
Modifying HW scores and Criteria for One Studnet

• Click on the "Edit Data" link which corresponds to the student's name.

Assigne	d Login Name	Student Name	Section Close Date	
~	dchen001	(Chen, Diane)		Edit data for dchen001
~	hgran001	(Granger, Hermione)		Edit data for hgran001
~	rlam004	(Lam, Robert)		Edit data for rlam004
~	alope001	(Lopez, Anna)		Edit data for alope001
✓	hpott001	(Potter, Harry)		Edit data for hpott001
✓	rweas001	(Weasley, Ron)		Edit data for rweas001

Modifying HW scores and Criteria for One Studnet

- Modify any data as applicable.
- "Seed" is for randomization.
- "Status" = score.
- Be sure that the box next to "Weight" and "Max attempts" are checked if modified.



The Student's Guide

- The Student's Guide is here:
- https://mathdept.ucr.edu/sites/g/files/rcwecm1516/files/202002/WeBWorK%20Student%27s%20Guide%20Mar2012.pdf
- Please make it available to your students as it will answer most of their common questions.
- To avoid syntax error, encourage your students to preview their answers before submitting.

Preview Answers

Entered	Answer Preview		
[cos((z-4)/(z+4))*[(z+4)*1-(z-4)*1]]/[(z+4)^2]	$\frac{\cos\!\left(\frac{z-4}{z+4}\right)\!\left((z+4)\cdot 1-(z-4)\cdot 1\right)}{\left(z+4\right)^2}$		

(1 point) Library/UCSB/Stewart5_3_5/Stewart5_3_5_25.pg

Differentiate
$$F(z) = \sin \frac{z-4}{z+4}$$
.

$$F'(z) = \cos[(z-4)/(z+4)]^*[(z+4)(1)-(z-4)(1)]/(z+4)^2$$

Scoring The Homework Sets

- You can wait until the end of the quarter and score all your homework sets all at once.
- However, it is recommended that you score them as they come due and backup a copy of your gradebook on your own computer or cloud.
- Each time you score a set, your old file is backed up and becomes a dot bak file before it is overwritten.

Scoring The Homework Sets

User Settings

Grades

Instructor Tools

Classlist Editor

Hmwk Sets Editor

Library Browser

Statistics

Student Progress

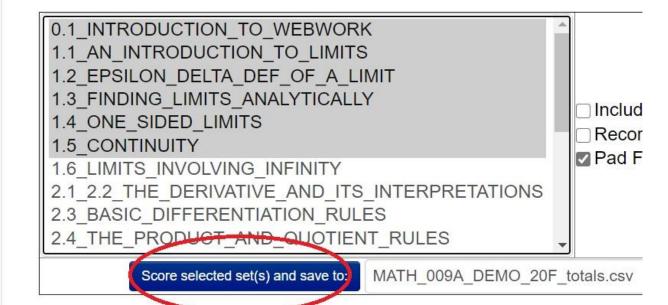
Scoring Tools

Email

File Manager

Course

Scoring Tools



R. Lam 091020 43

Scoring The Homework Sets

```
2.3_BASIC_DIFFERENTIATION_RULES 2.4_THE_PRODUCT_AND_QUOTIENT_RULES
```

Score selected set(s) and save to:

MATH_009A_DEMO_20

All of these files will also be made available for mail merge.

Totals

Click on link to download

MATH 009A DEMO 20F totals.csv

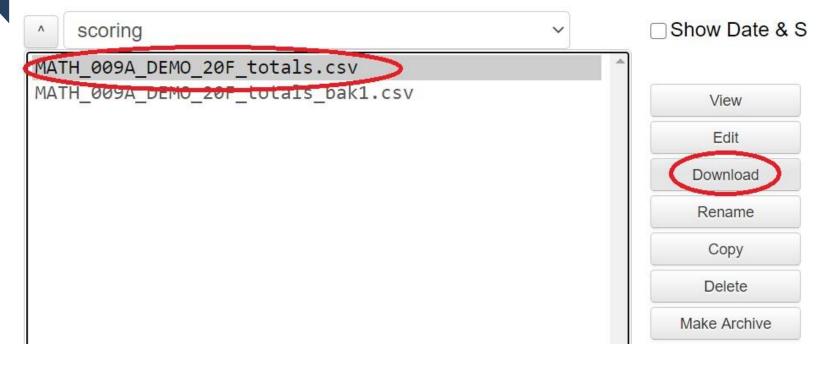
NO OF FIELDS	S ,	و)	,	,	,
SET NAME	,	,	,	,	,	,0
PROB NUMBER	,	,	,	,	,	,

Finding Your Gradebook





Finding Your Gradebook



Rob Lam
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(951) 827-3117
robert.lam@ucr.edu