WeBWorK Instructor's Quick Start Guide

Department of Mathematics
University of California, Riverside

What is WeBWorK?

- WeBWorK is an open source online homework program supported by the Mathematical Association of America (MAA) and is available to the university and our students free-of-charge. The program has been installed and is being hosted by Computing and Communications (CnC).

Introduction to WeBWorK

- WeBWorK is not textbook based. Its library contains almost 30,000 homework problems contributed by authors from many universities across the country.
- Supported courses include college algebra, trigonometry, pre-calculus, single and multivariable calculus, differential equations, probability and statistics, linear algebra, and complex analysis.

Introduction to WeBWorK

- 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.

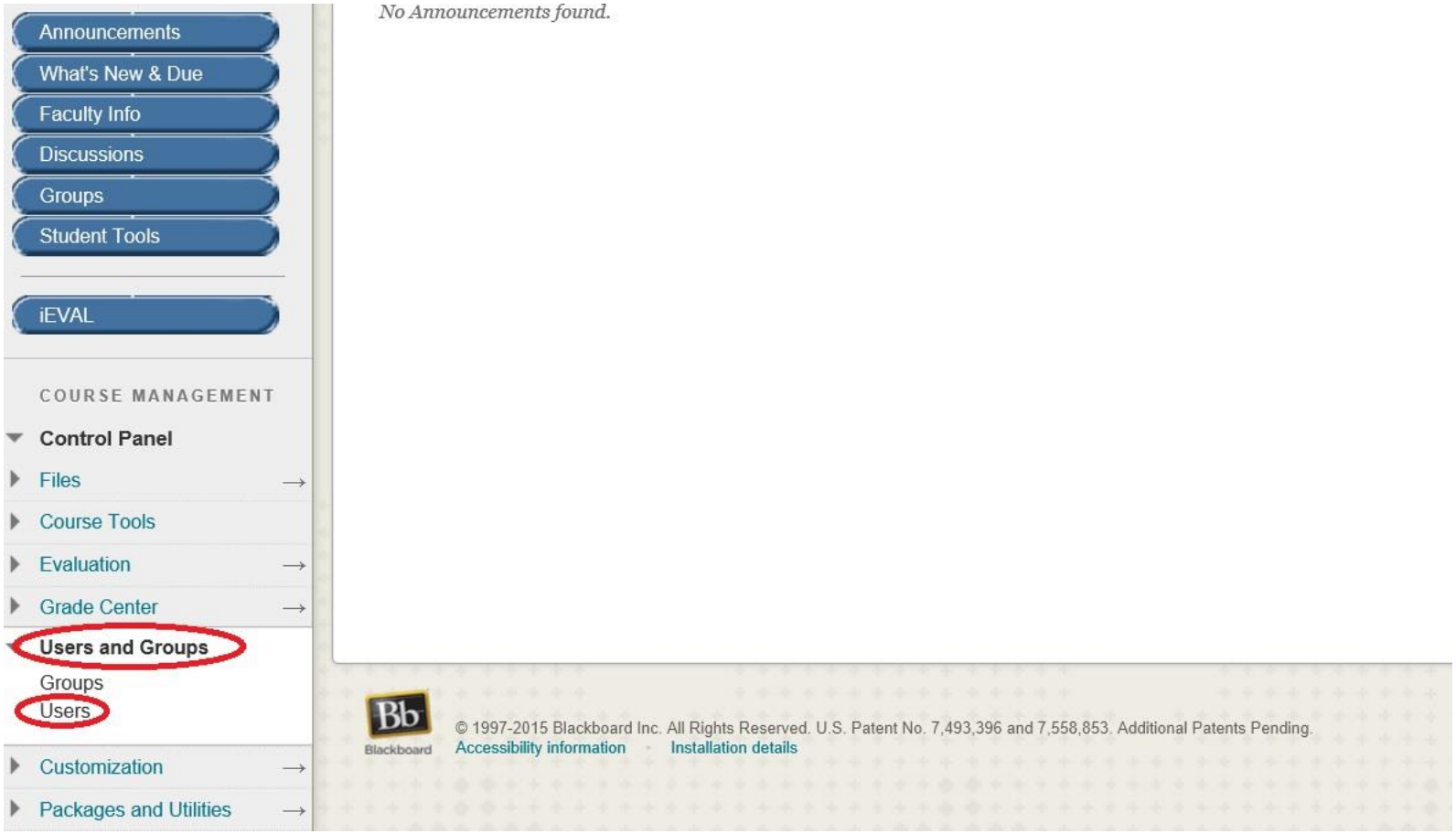
WeBWorK Homework Models

- 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

- Please go to your course on iLearn and add the WeWorK Administrator as a TA.
- His iLearn username is: rlam004
- Once your WeBWorK course has been setup, you will receive an email notification from the administrator with a link to your course as well as your login information.

Adding TA's on iLearn



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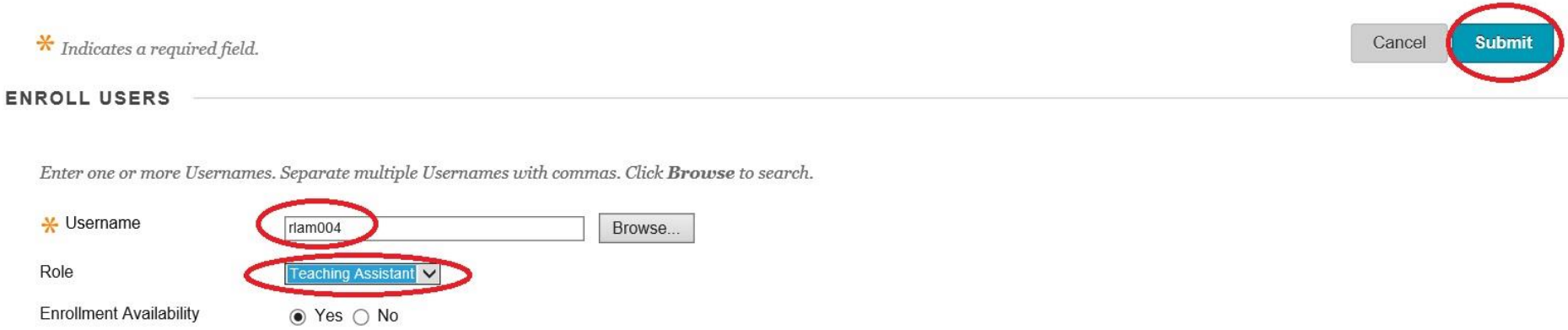
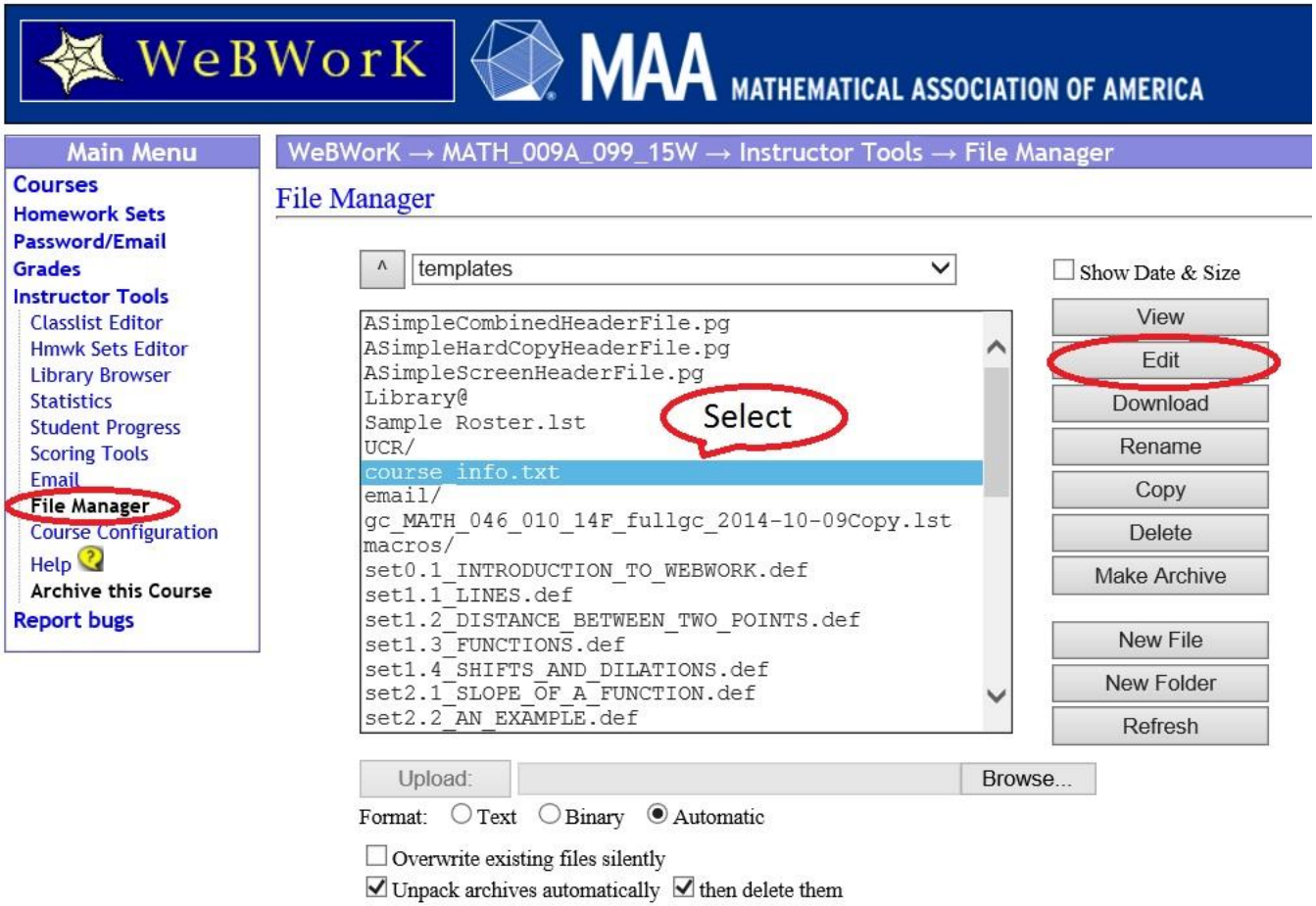


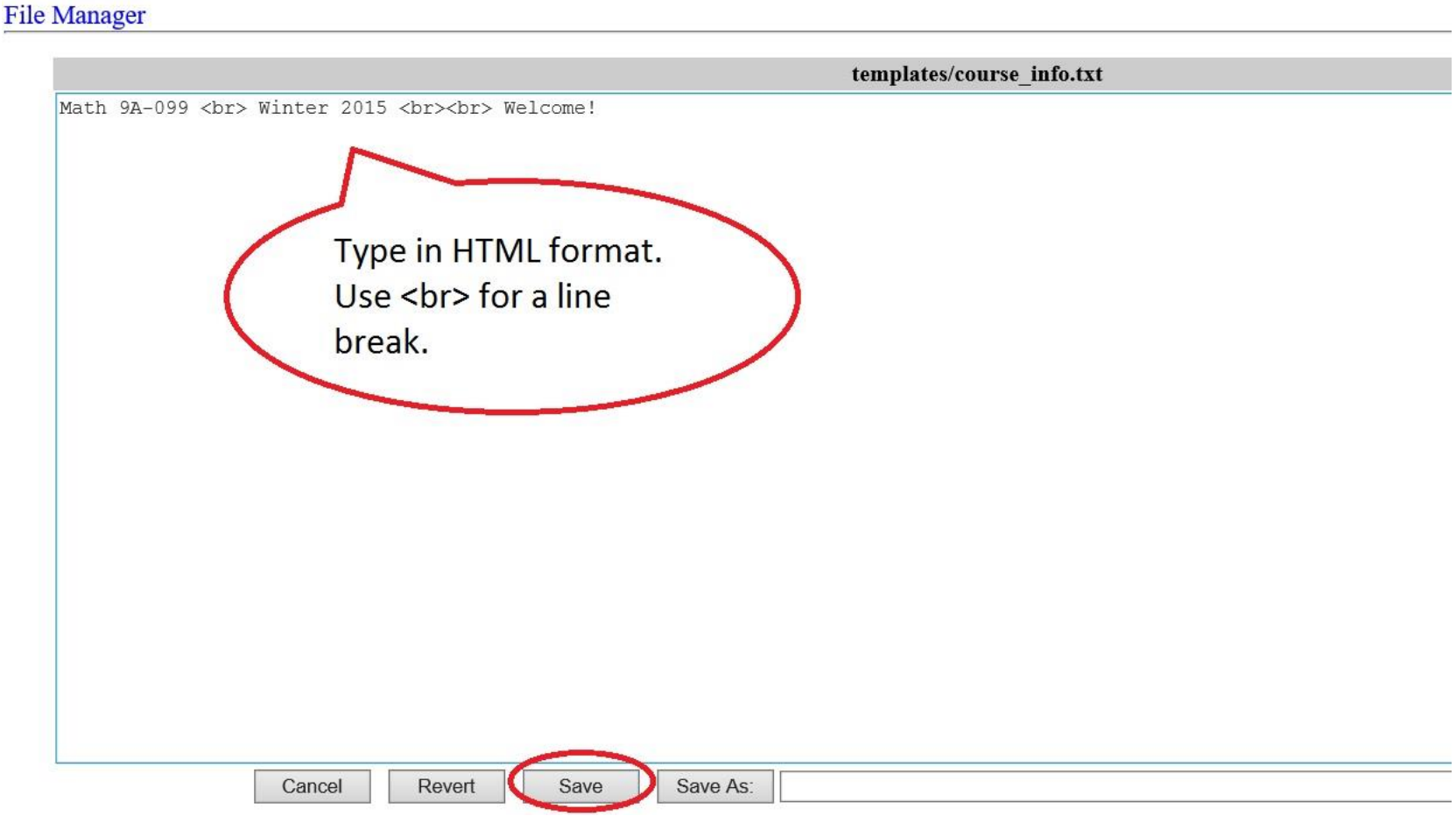
Login Information

- Our WeBWorK courses are here:
- http://webwork.ucr.edu/webwork2
- Instructors will receive their login information from the WeBWorK administrator.
- 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



Editing Course Information



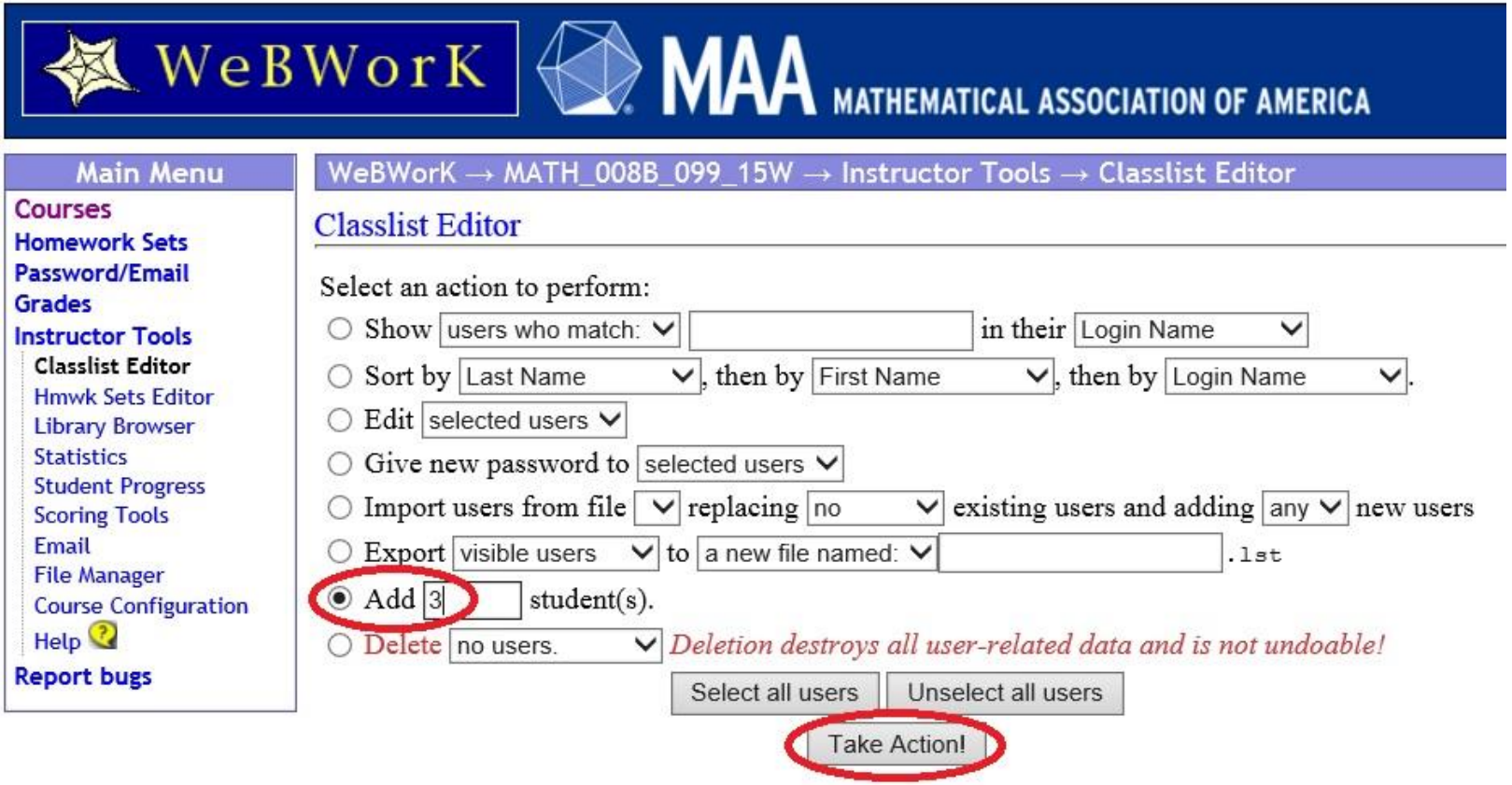
Adding Newly Enrolled Students

- During the first few days of class, the WeBWorK admin will update your roster daily.
- Please refer your students to contact the WeBWorK admin directly for access or technical issues.
- Alternatively, if you like, you can also add the student(s) yourself.

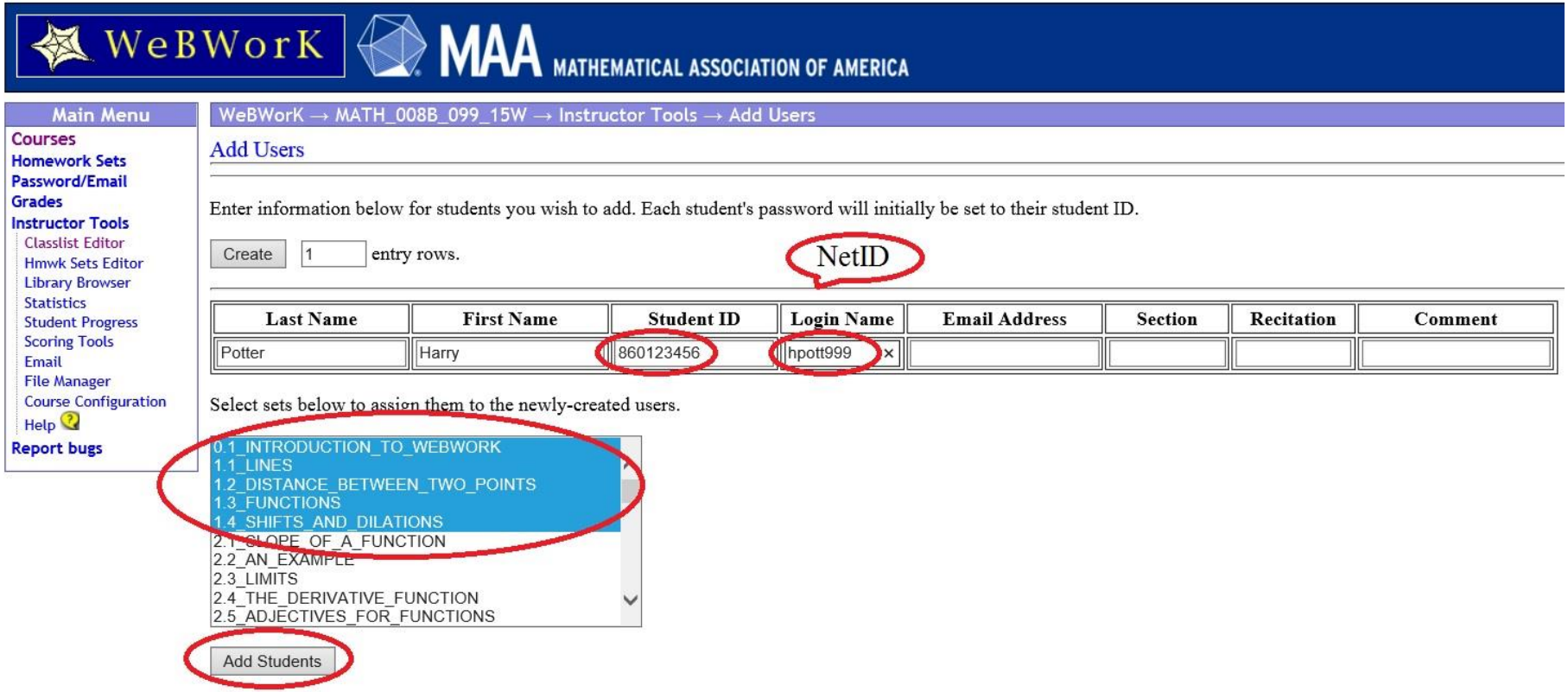
Adding Newly Enrolled Students

- To add students manually, click on “Classlist Editor” and follow the screenshots.
- You can find your student’s NetID and SID number from the Grade Center on iLearn.
- If you have assigned homework already, then assign them to the new students on the same screen.

Adding Newly Enrolled Students



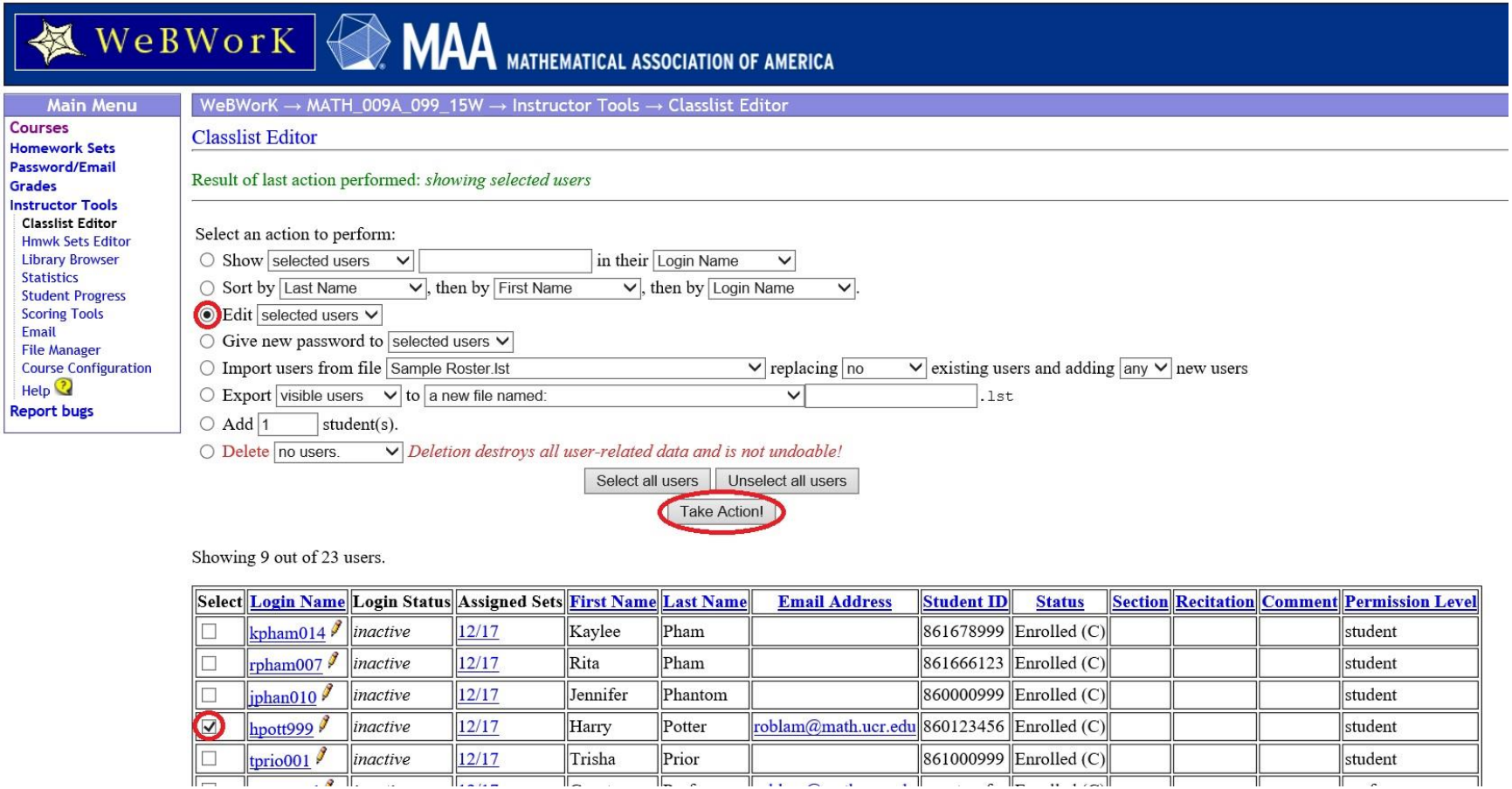
Adding Newly Enrolled Students



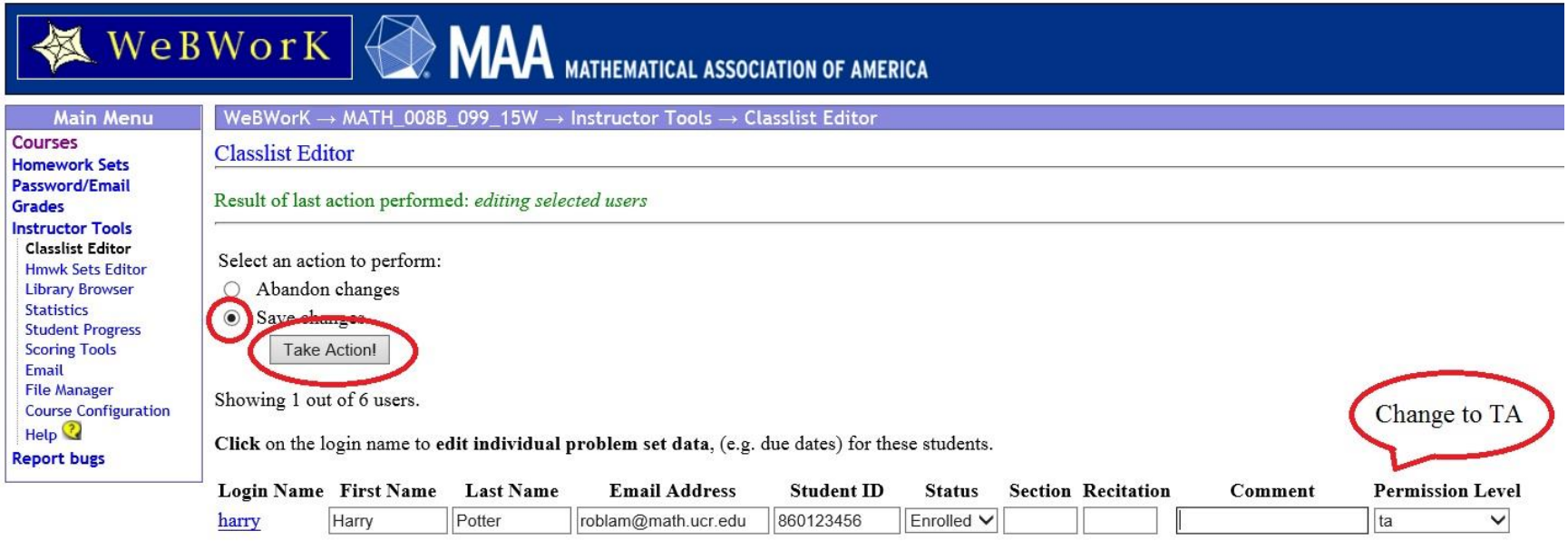
Adding TA's on WeBWorK

- 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.
- Then change the role to TA by following the screenshots.

Adding TA's on WeBWorK



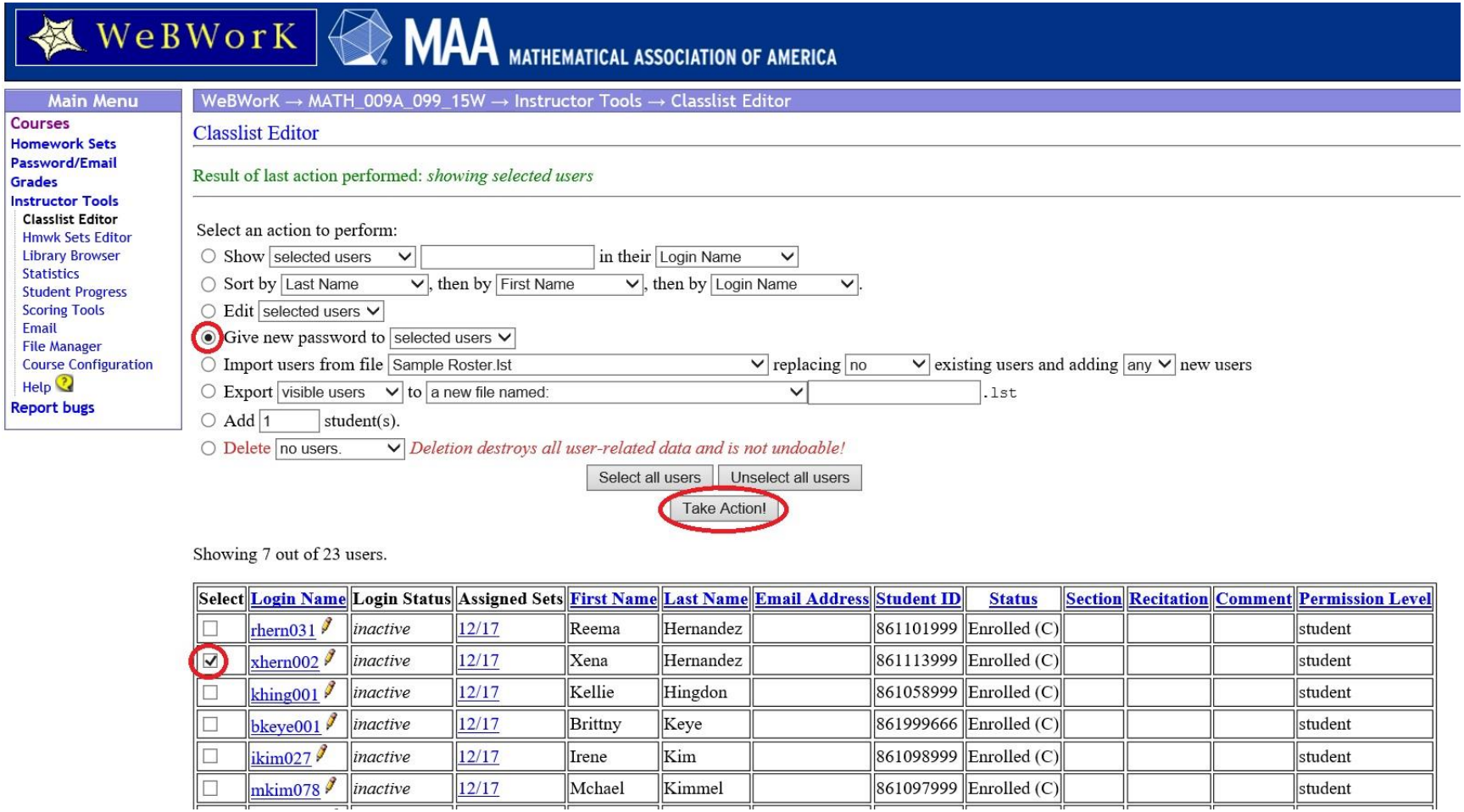
Adding TA's on WeBWorK



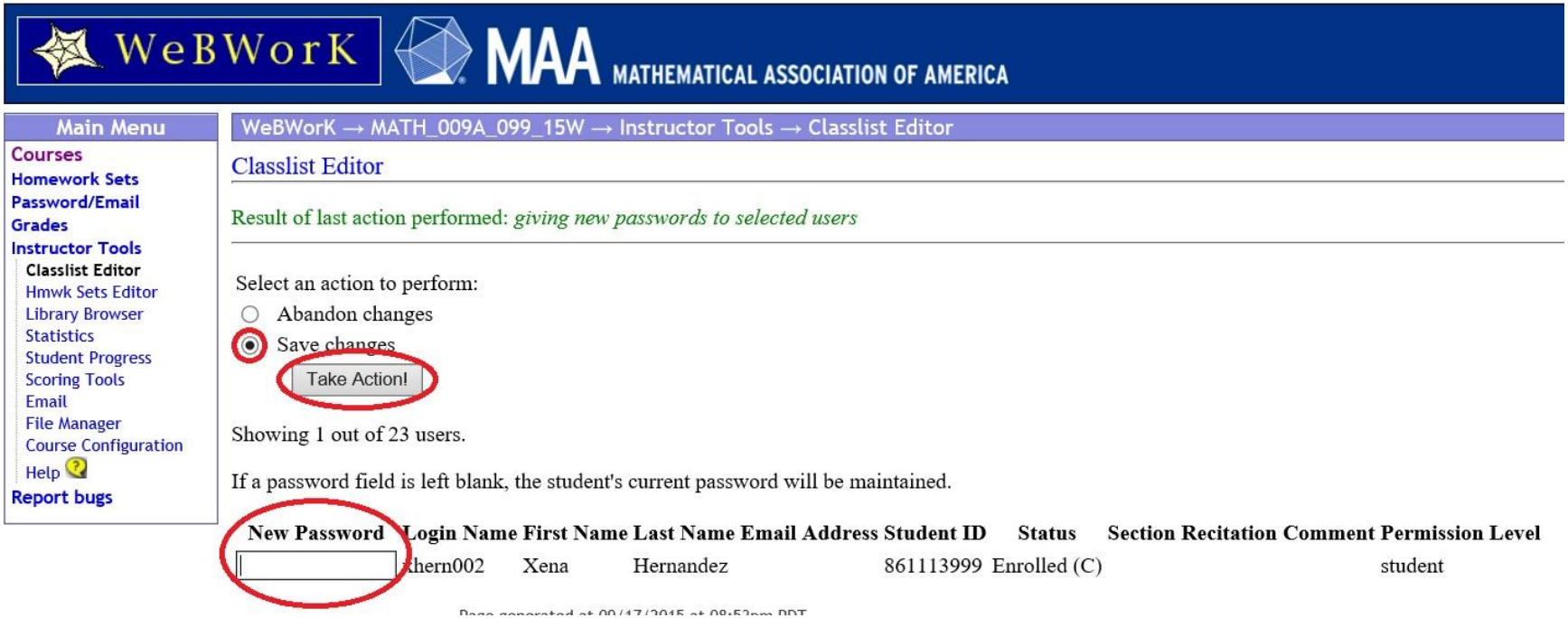
Resetting Passwords

- Should your students or TA's forget their passwords, you can give them a new password by going to the "Classlist Editor" and selecting the "Give New Passwords To" option.
- Follow the screenshots.
- If you forget your password, you'll have to contact the WeBWorK administrator to have him reset it for you.

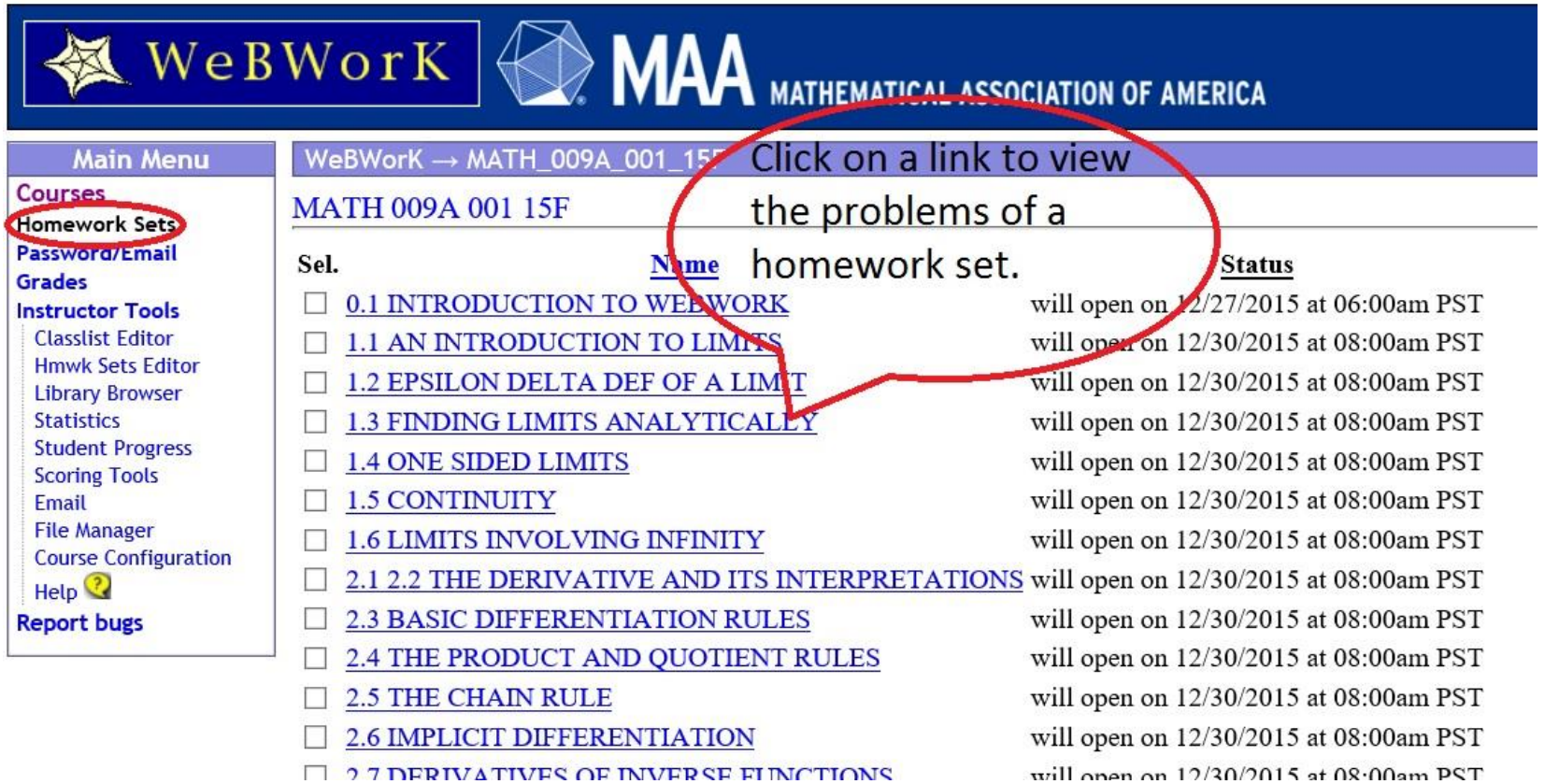
Resetting Passwords



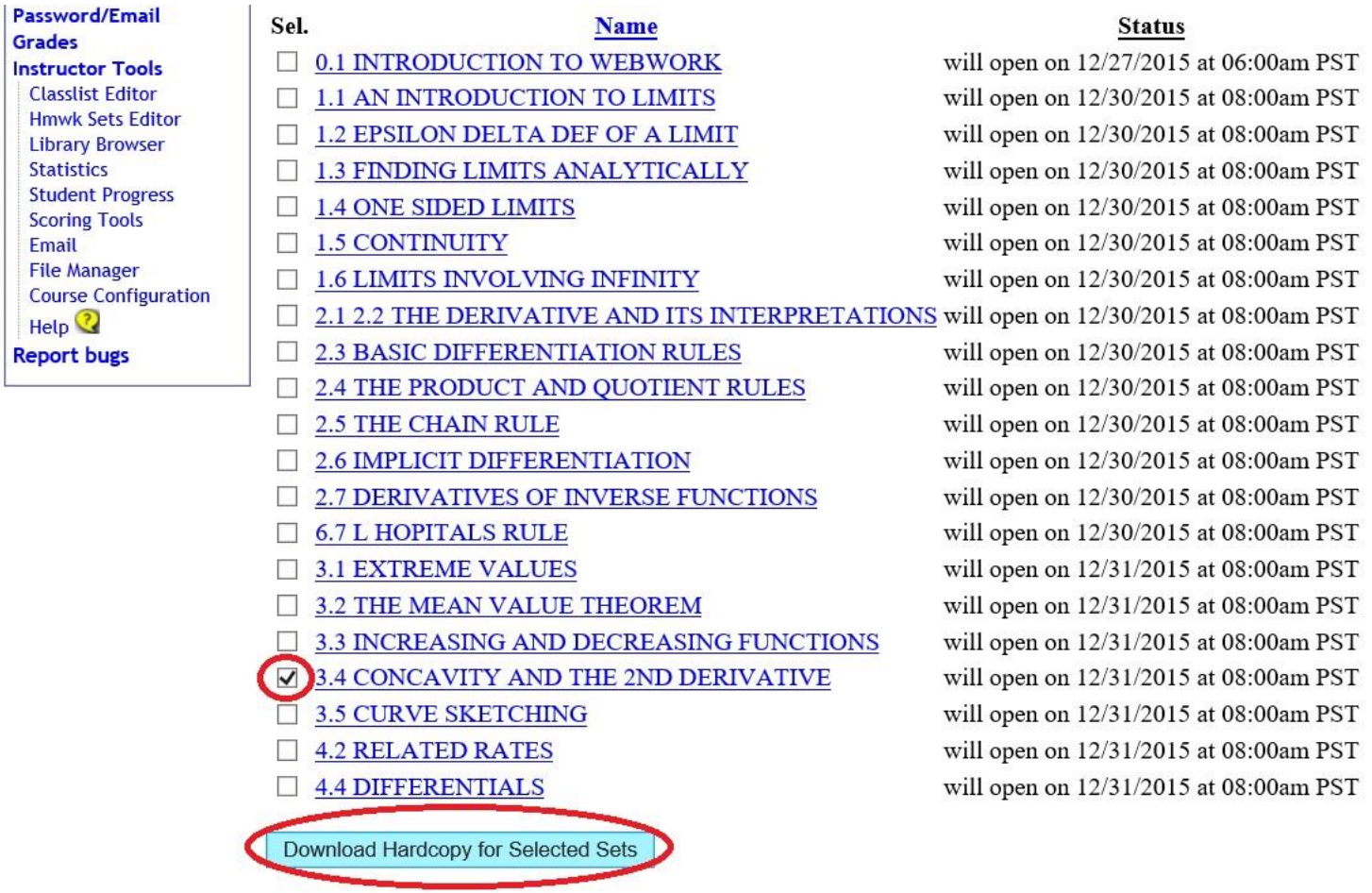
Reseting Passwords



Viewing The Problems of A HW Set



Printing A Homework Set



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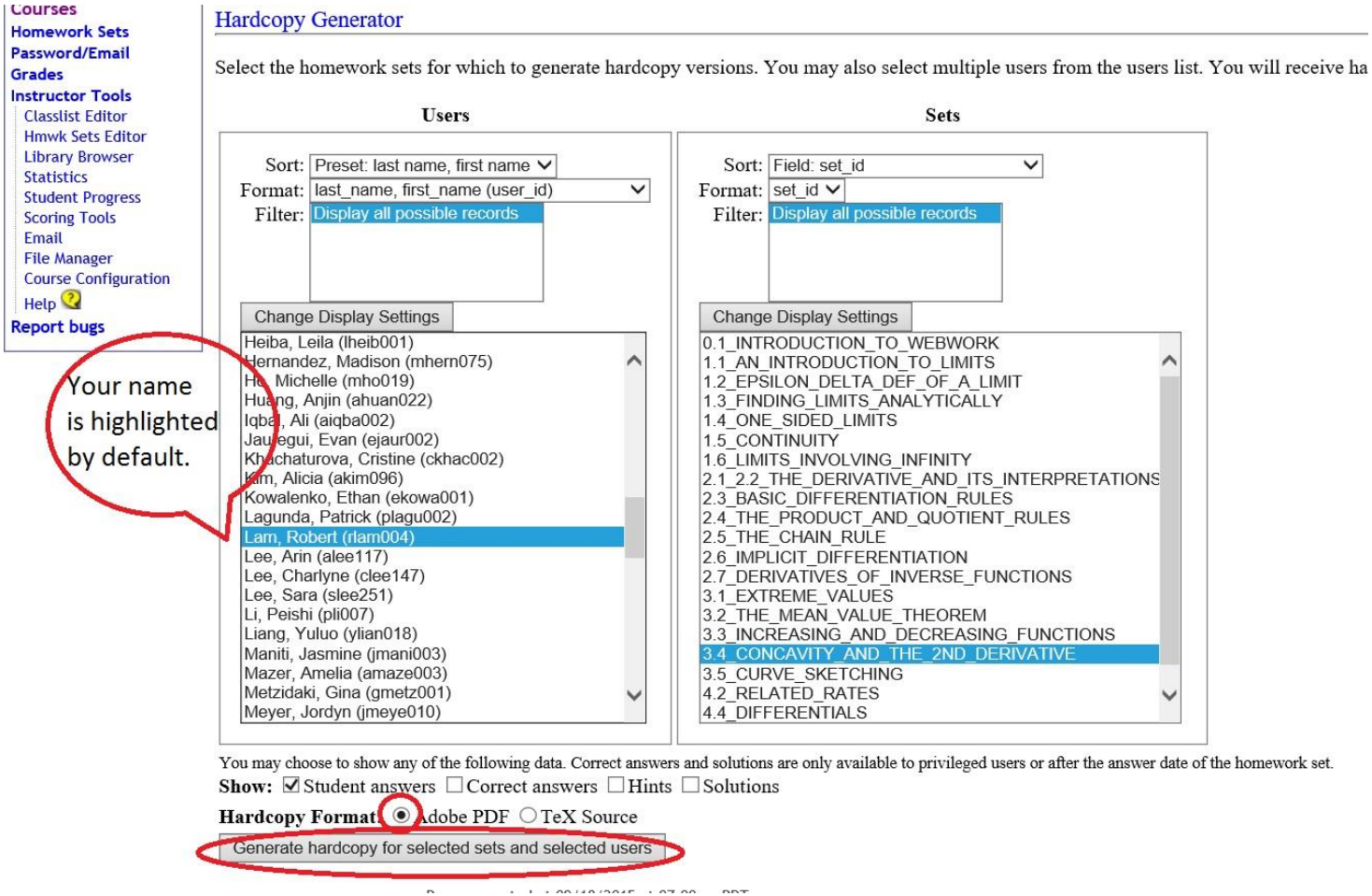


Homework Management

- All of your homework managements are done in the “Homework Sets Editor”.
- To create a new homework set, use the option “Create a new set named” and type the name in the box. Please note that spaces are NOT allowed and you will need to use underscores for spaces, for example, “The_Chain_Rule”. Then save it as “an empty set”.

Changing The Dates of A HW Set

- Click on the pencil icon under that set and then change the dates and times on the next screen.
- Pay attention to PDT and PST and change if necessary. WeBWorK recognizes PDT or PST by the dates and will move the clock for you automatically (may not be a good thing as this may not be the time that you originally assigned.)

Changing The Dates of A HW Set

Hmwk Sets Editor

Please select action to be performed.

Select an action to perform:

- Show sets with matching set IDs: (separate multiple IDs with commas)
- Primary sort: Due Date Secondary sort: Open Date.
- Edit selected sets
- Make selected sets visible for students.
- Import a single set from the following file(s) with set name(s): assigning this set to only rlam004.
- Export visible sets
- Score no sets.
- Create a new set named: as a new empty set.
- Delete no sets. *Deletion destroys all set-related data and is not undoable!*

Select all sets | Unselect all sets

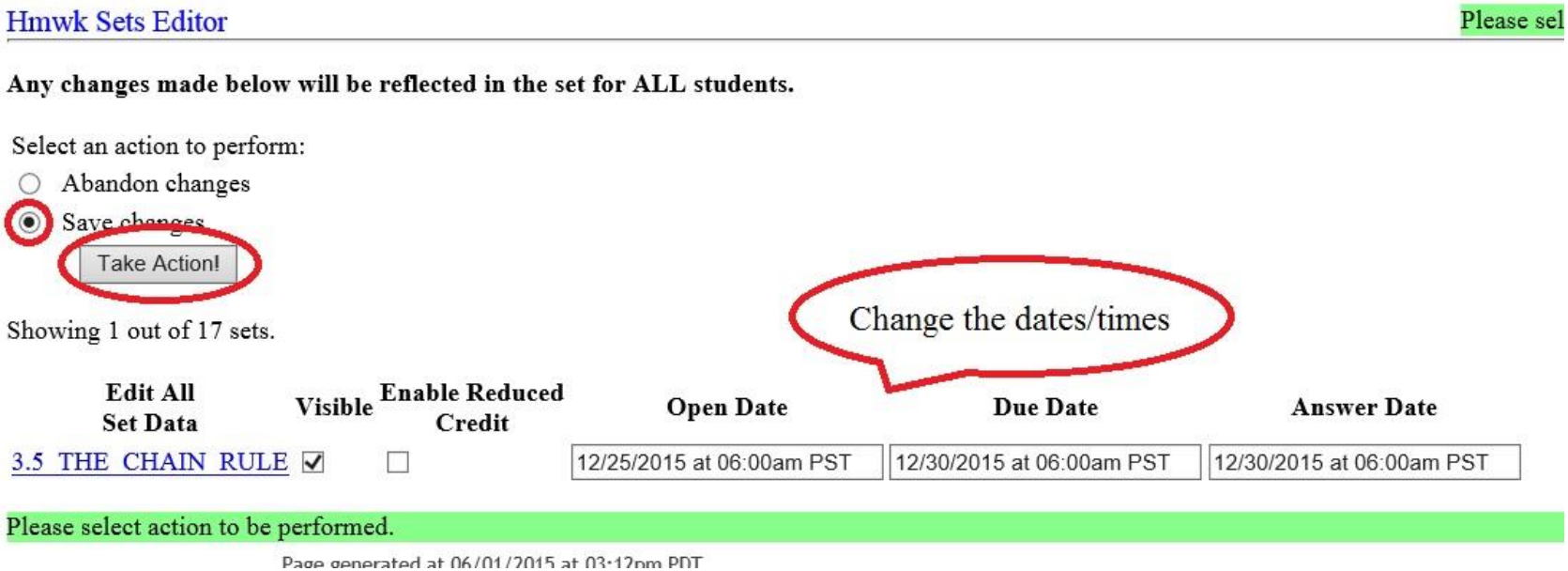
Take Action!

Click the pencil icon

Showing 17 out of 17 sets.

Select	Edit Set Data	Edit Problems	Edit Assigned Users	Visible	Reduced Credit Enabled	Open Date	Due Date	Answer Date
☐	3.5_THE_CHAIN_RULE	16	0/23	Yes	No	12/25/2015 at 06:00am PST	12/30/2015 at 06:00am PST	12/30/2015 at 06:00am PST
☐	4.1_TRIGONOMETRIC_FUNCTIONS	10	0/23	Yes	No	12/26/2015 at 06:00am PST	12/30/2015 at 06:00am PST	12/30/2015 at 06:00am PST
☐	4.2_4.3_DERIVATIVE_OF_SIN_X	8	0/23	Yes	No	12/27/2015 at 06:00am PST	12/30/2015 at 06:00am PST	12/30/2015 at 06:00am PST
☐	4.4_4.5_DERIVATIVES_OF_TRIG_FUNCTIONS	13	0/23	Yes	No	12/28/2015 at 06:00am PST	12/30/2015 at 06:00am PST	12/30/2015 at 06:00am PST
☐	4.6_IMPLICIT_DIFFERENTIATION	12	0/23	Yes	No	12/29/2015 at 06:00am PST	12/30/2015 at 06:00am PST	12/30/2015 at 06:00am PST
☐	3.4_THE_QUOTIENT_RULE	10	23/23	Yes	No	12/30/2015 at 06:00am PST	12/30/2015 at 06:00am PST	12/30/2015 at 06:00am PST

Changing The Dates of A HW Set



Assigning Homework

Hmwk Sets Editor

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[Select all sets] [Unselect all sets]

[Take Action!]

Showing 17 out of 17 sets.

Click!

Select	Edit Set Data	Edit Problems	Edit Assigned Users	Visible	Reduced Credit Enabled	Open Date	Due Date	Answer Date
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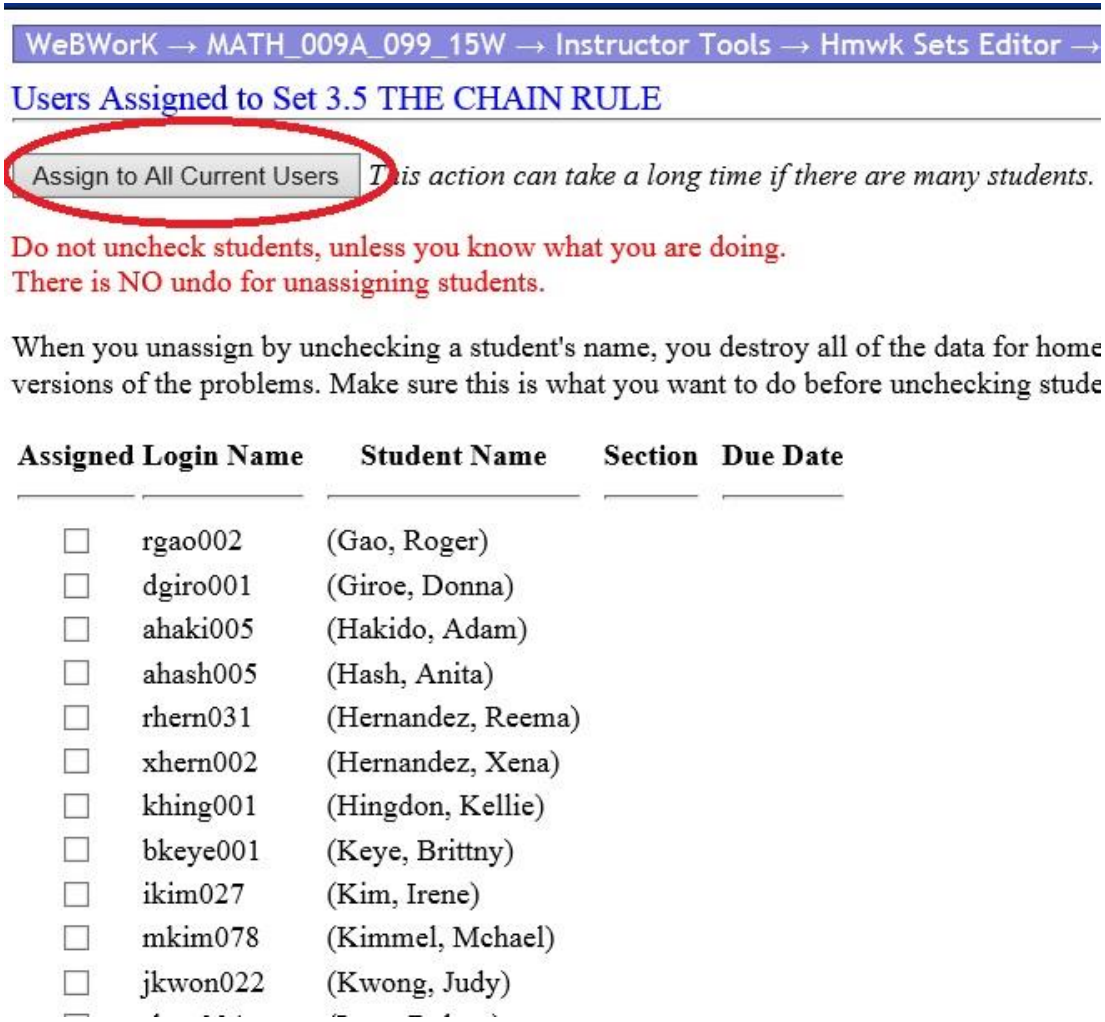
Assigning Homework



WeBWorK → MATH_009A_099_15W → Instructor Tools → Hmwk Sets Editor →

Users Assigned to Set 3.5 THE CHAIN RULE

Assign to All Current Users *This action can take a long time if there are many students.*

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 destroy all of the data for home versions of the problems. Make sure this is what you want to do before unchecking stude

Assigned	Login Name	Student Name	Section	Due Date
☐	rgao002	(Gao, Roger)		
☐	dgiro001	(Giroe, Donna)		
☐	ahaki005	(Hakido, Adam)		
☐	ahash005	(Hash, Anita)		
☐	rhern031	(Hernandez, Reema)		
☐	xhern002	(Hernandez, Xena)		
☐	khing001	(Hingdon, Kellie)		
☐	bkeye001	(Keye, Brittny)		
☐	ikim027	(Kim, Irene)		
☐	mkim078	(Kimmel, Mchael)		
☐	jkwon022	(Kwong, Judy)		

Modifying A Homework Set

Hmwk Sets Editor

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- Export [visible sets]
- Score [no sets.]
- Create a new set named: [ ] as [a new empty set.]
- Delete [no sets.] *Deletion destroys all set-related data and is not undoable!*

[Select all sets] [Unselect all sets]

[Take Action!]

Showing 17 out of 17 sets.

Click!

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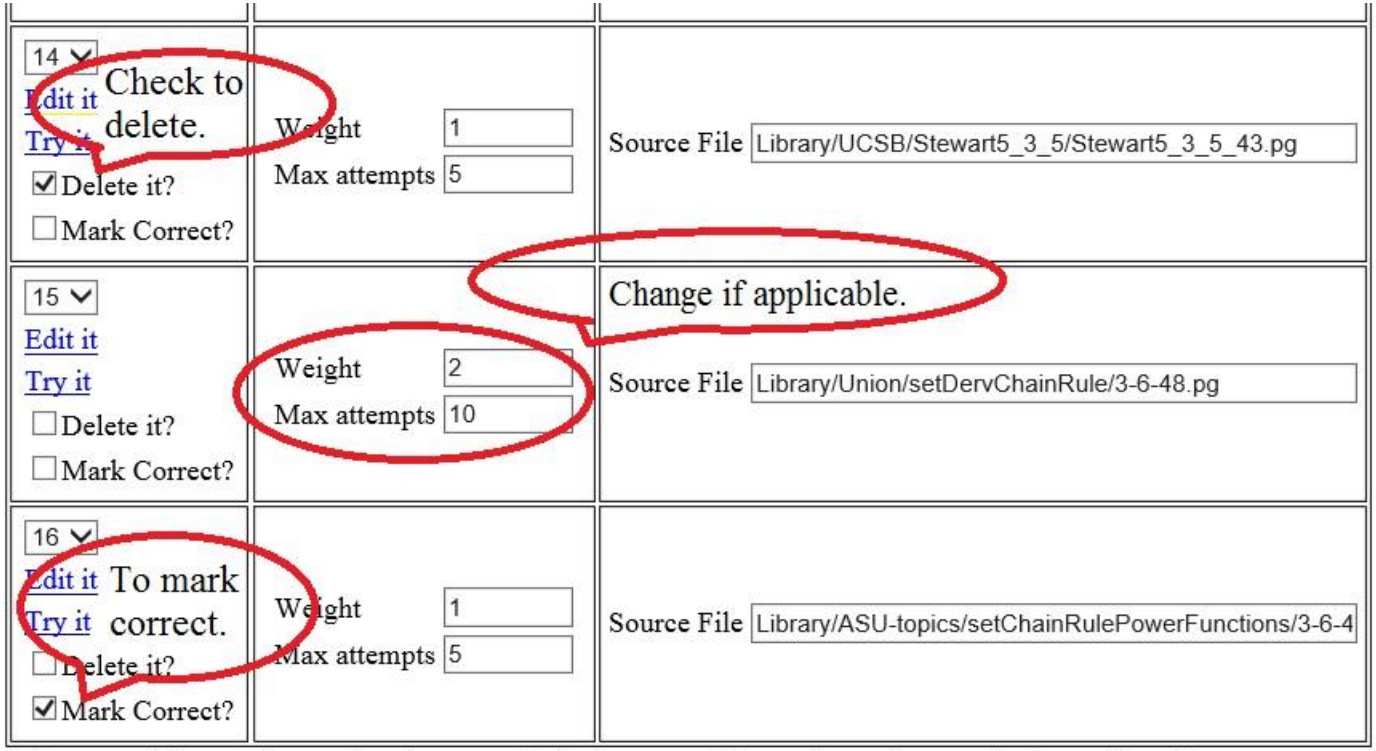
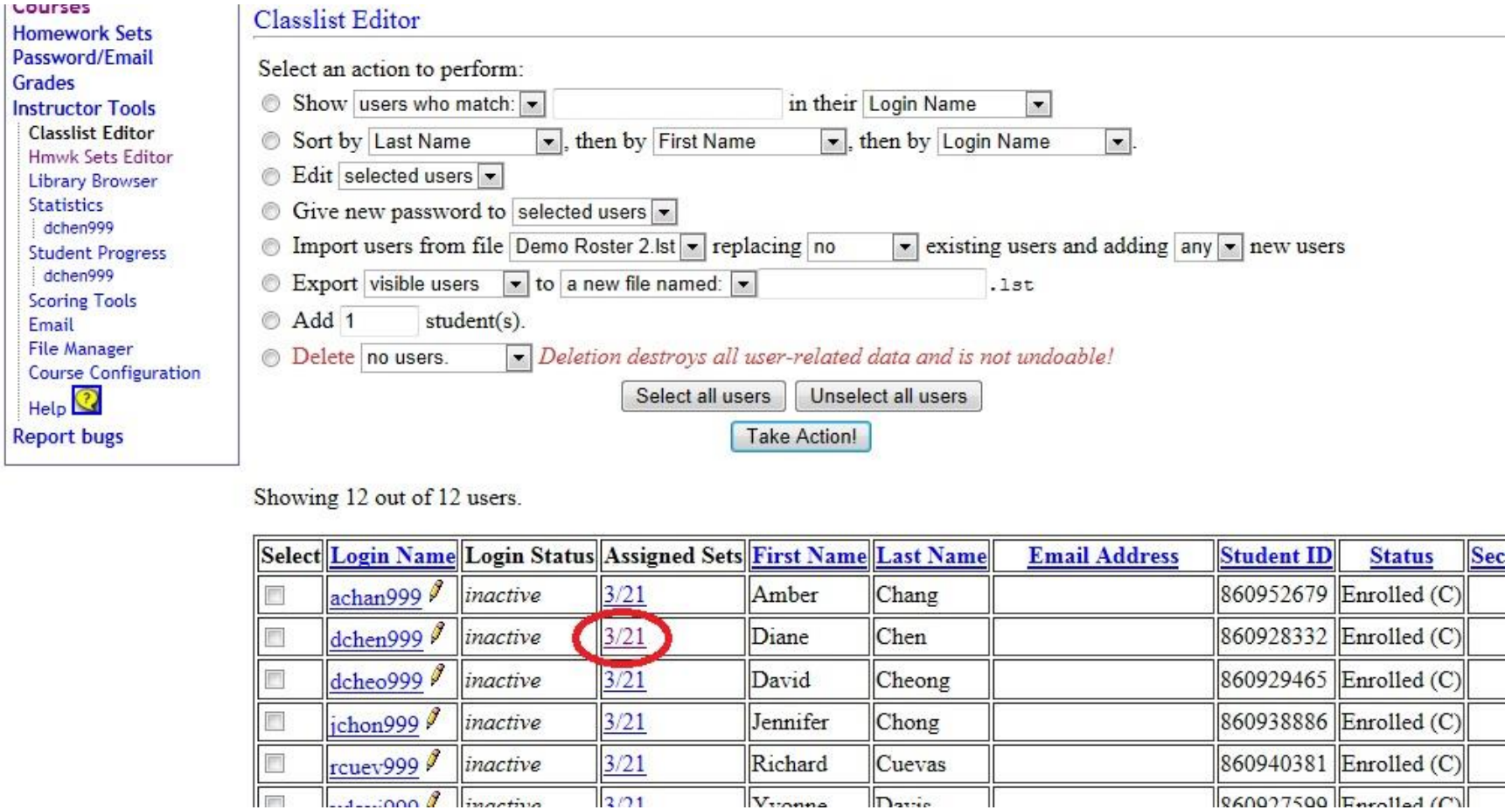


Granting Extensions



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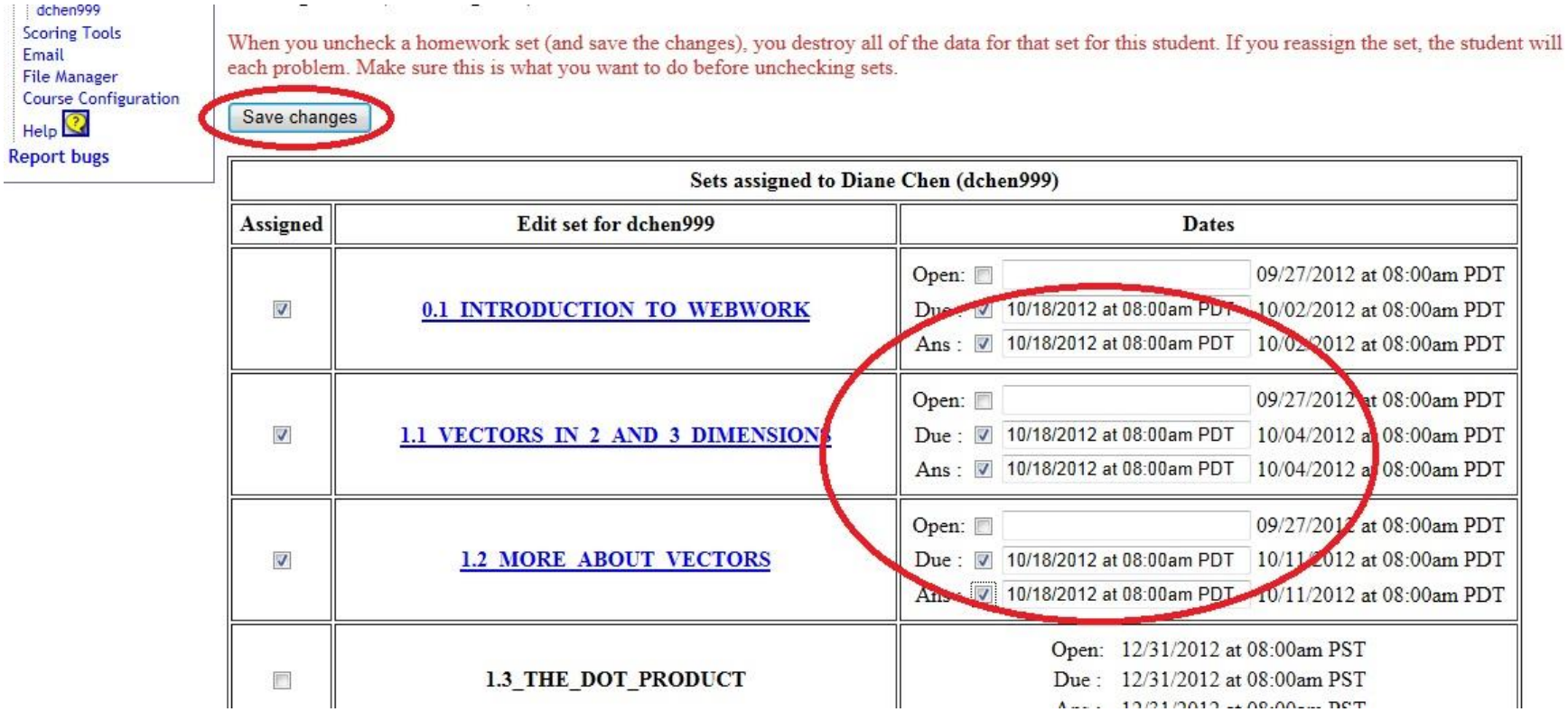

Modifying HW Scores And Criteria for An Individual Student

Hmwk Sets Editor

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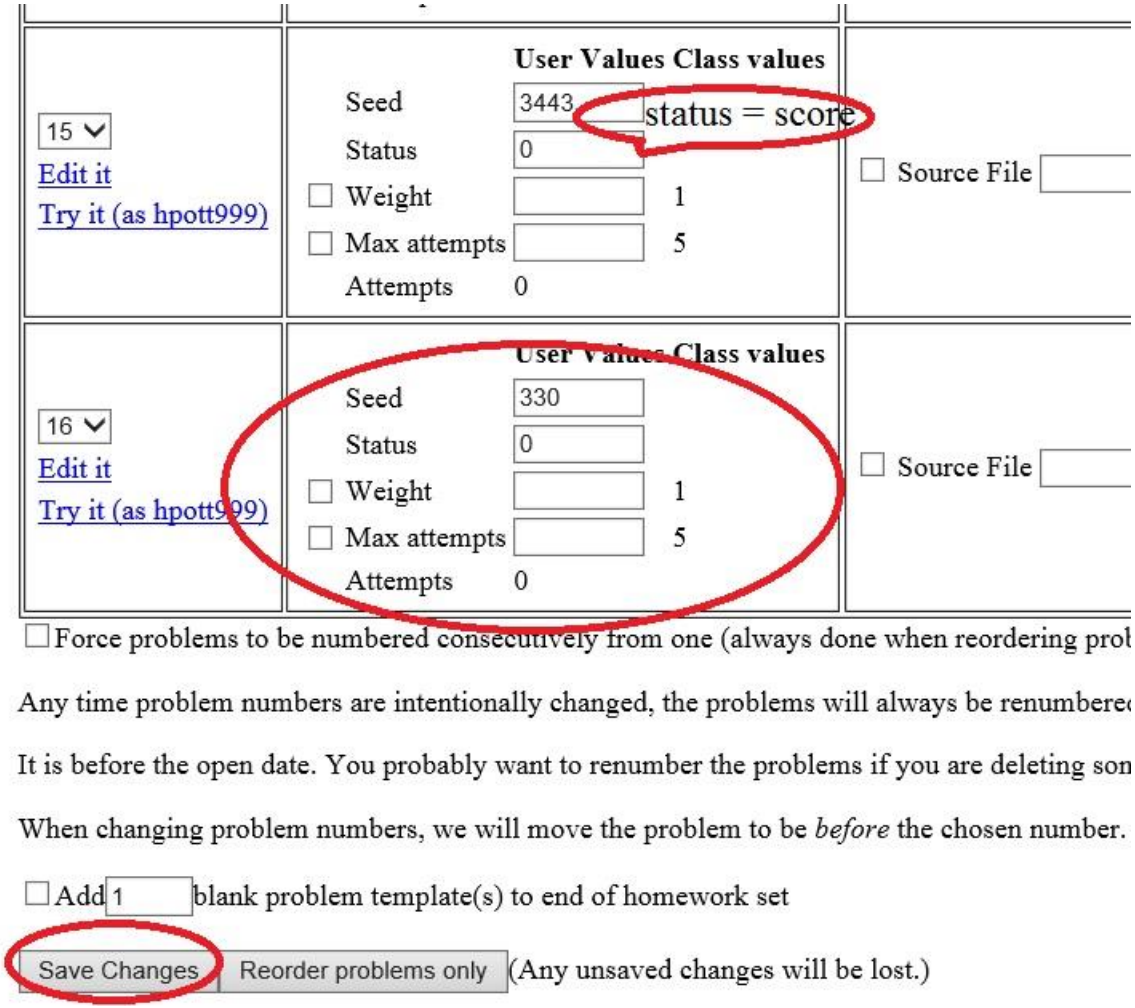
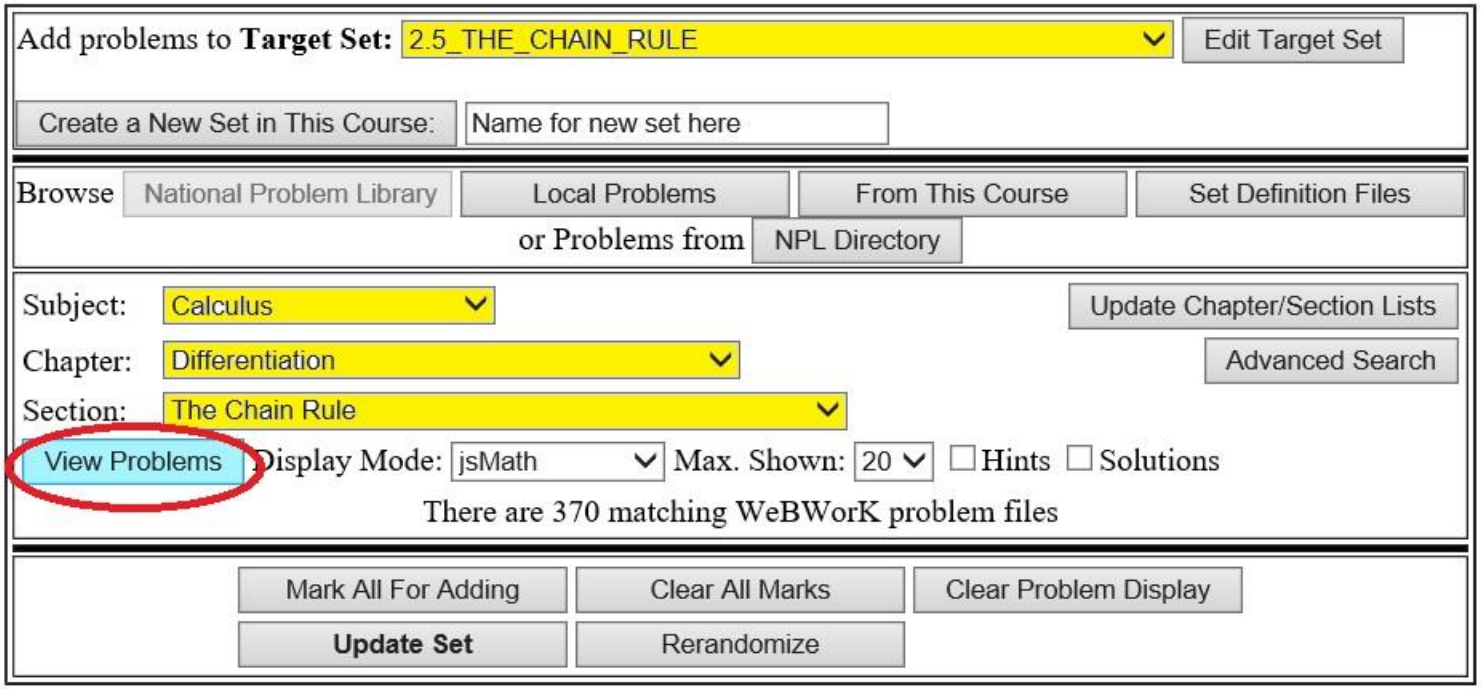
Modifying HW Scores And Criteria for An Individual Student

Modifying HW Scores And Criteria for An Individual Student



Using The Library Browser



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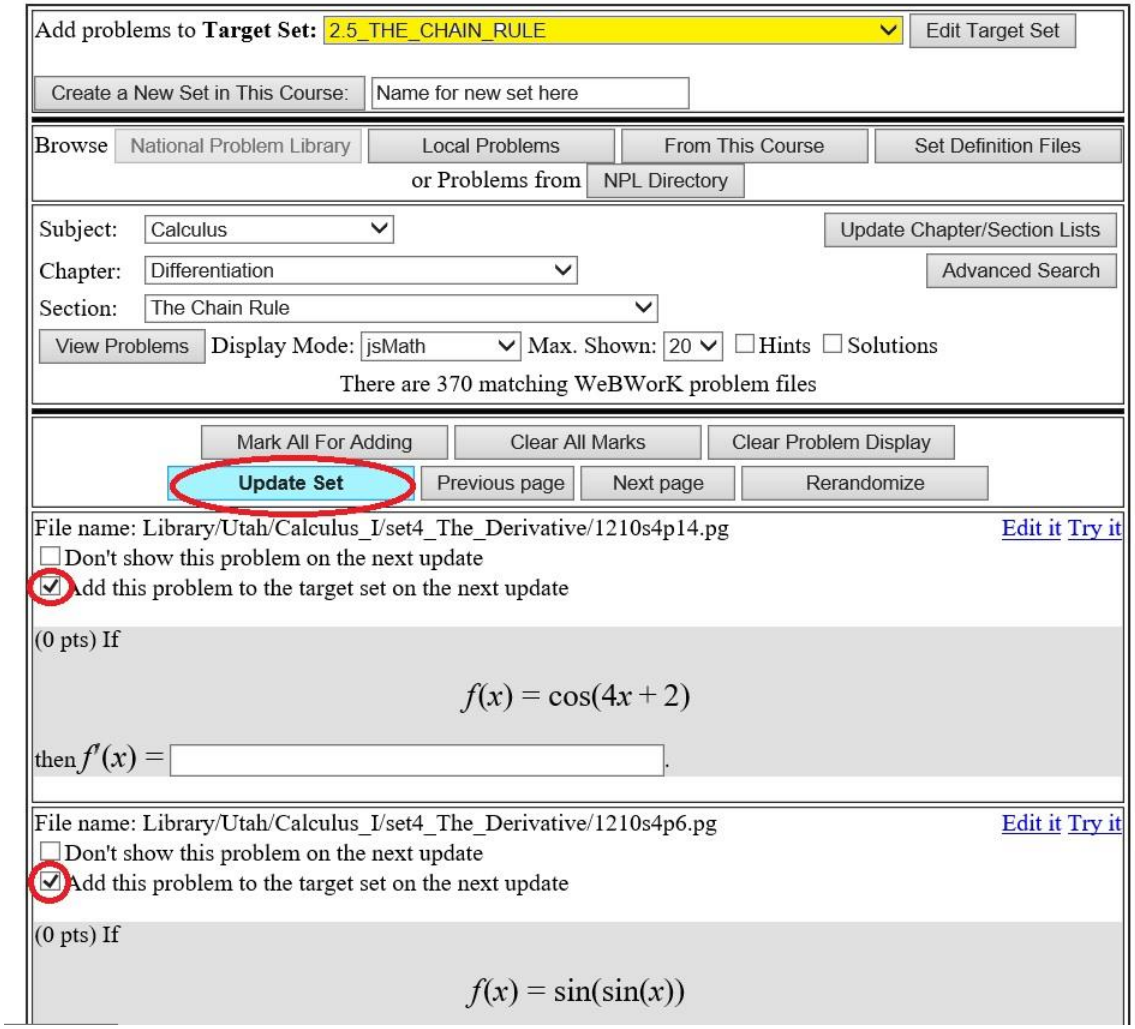

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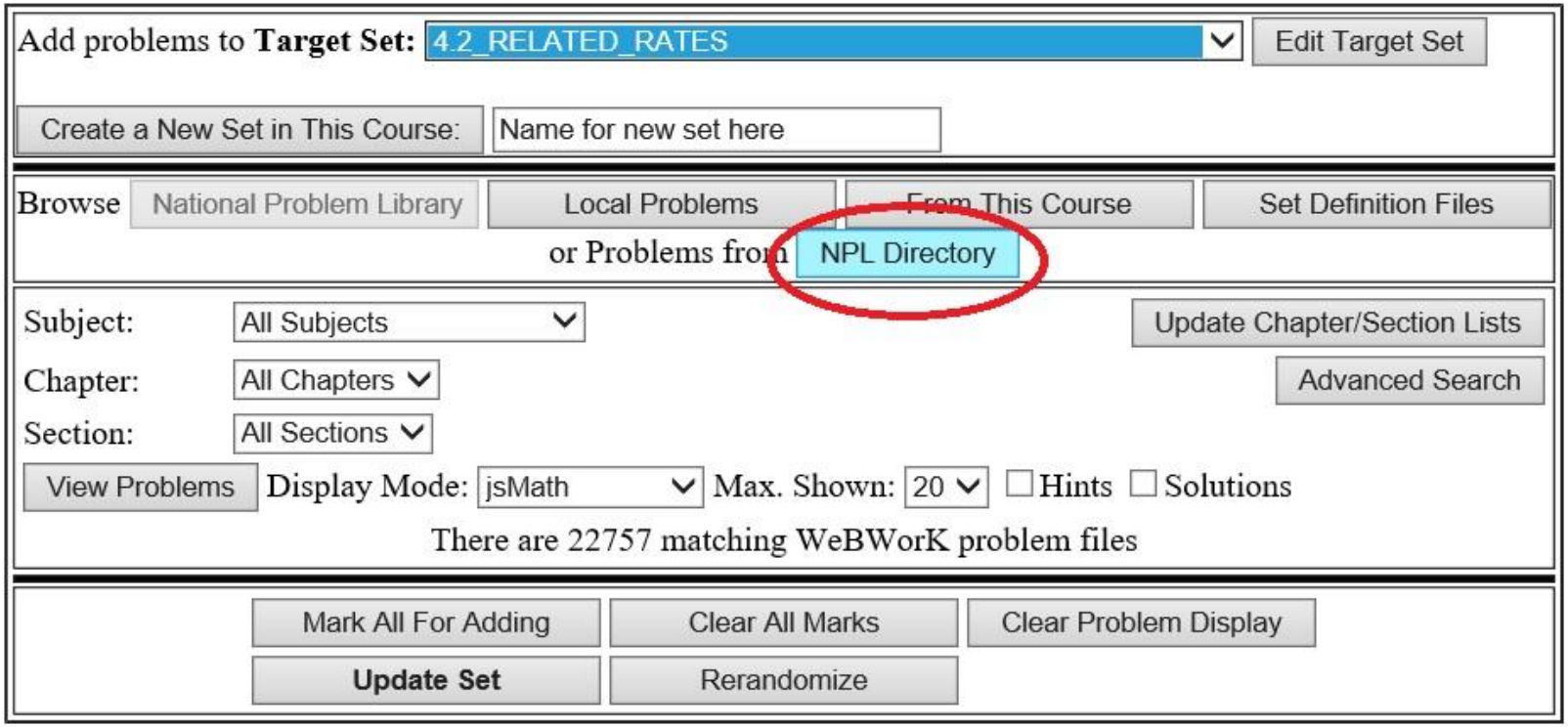

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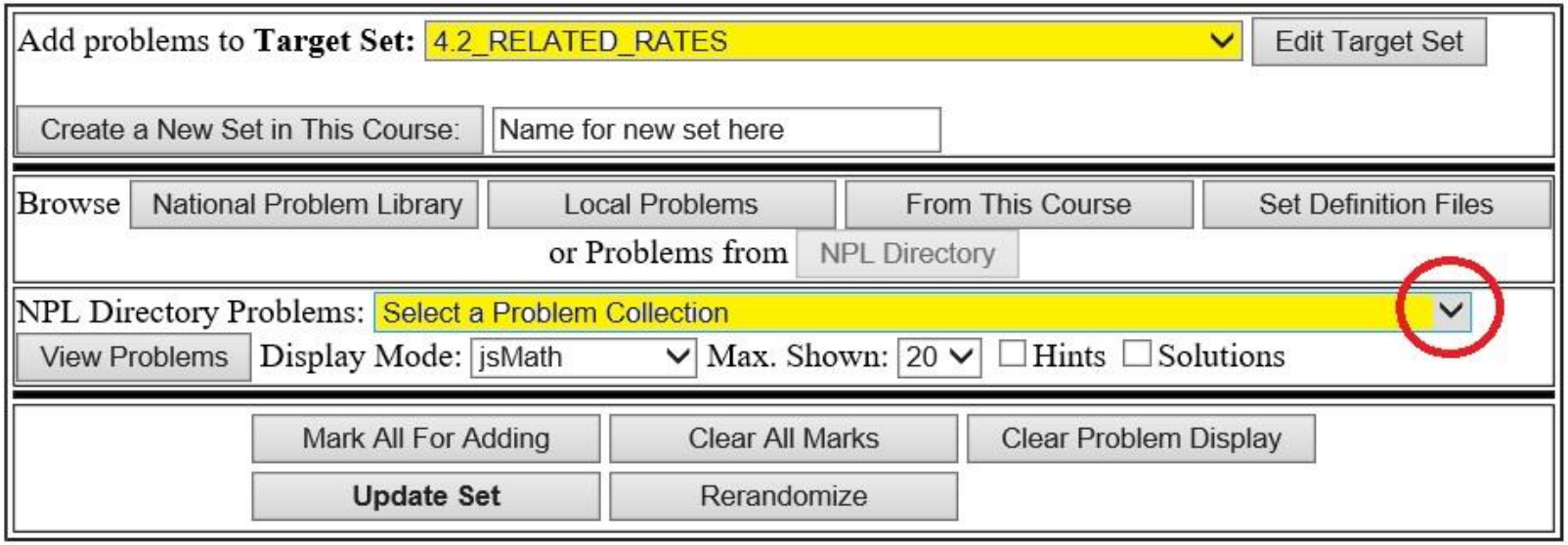

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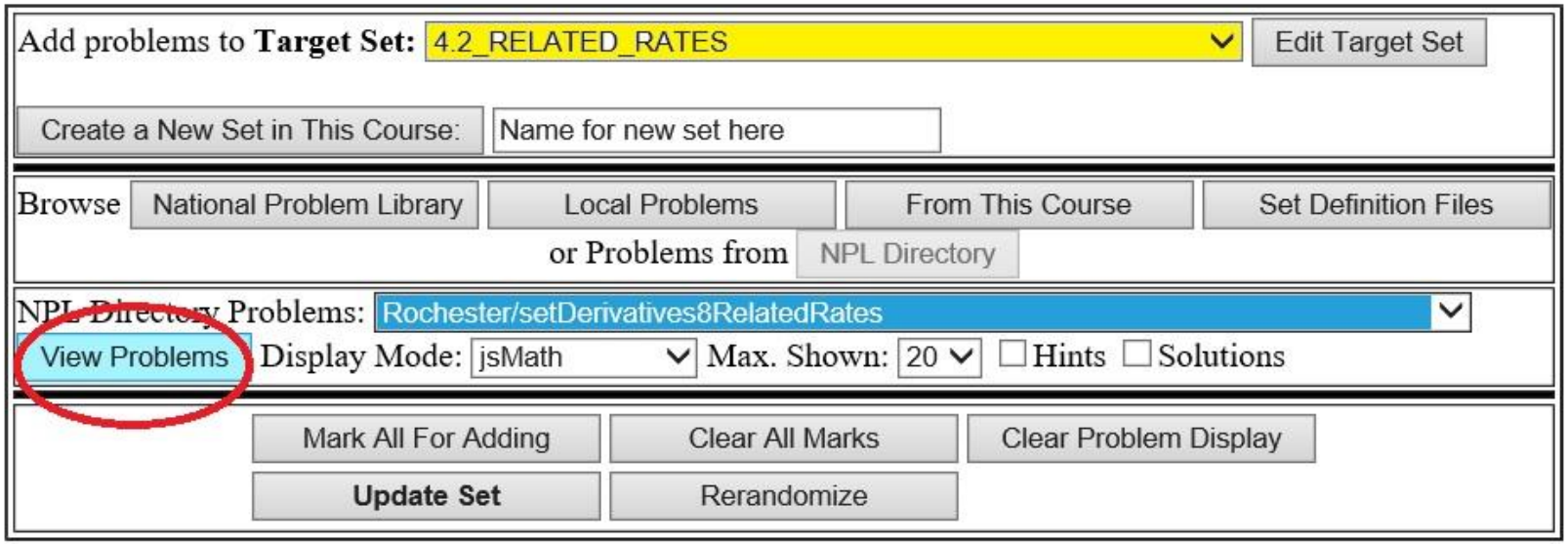


The Student's Guide

- The Student's Guide is here:
- http://mathdept.ucr.edu/pdf/studenttools/WeBWorK%20Students%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

(1 pt)

Differentiate $F(z) = \sin \dfrac{z-6}{z+6}$.

$F'(z) =$ cos[(z-6)/(z+6)]*[(z+6)(1)-(z-6)(1)]/(z+6)^2

Preview Answers | Submit answers

You have attempted this problem 0 times.
You have 5 attempts remaining.

Preview Answers

PREVIEW ONLY -- ANSWERS NOT RECORDED

Entered	Answer Preview
[cos((z-6)/(z+6))*[(z+6)*1-(z-6)*1]]/[(z+6)^2]	$\dfrac{\cos\left(\frac{z-6}{z+6}\right)\left((z+6)\cdot 1-(z-6)\cdot 1\right)}{(z+6)^2}$

(1 pt)

Differentiate $F(z)=\sin\dfrac{z-6}{z+6}$.

$F'(z)=$ cos[(z-6)/(z+6)]*[(z+6)(1)-(z-6)(1)]/(z+6)^2

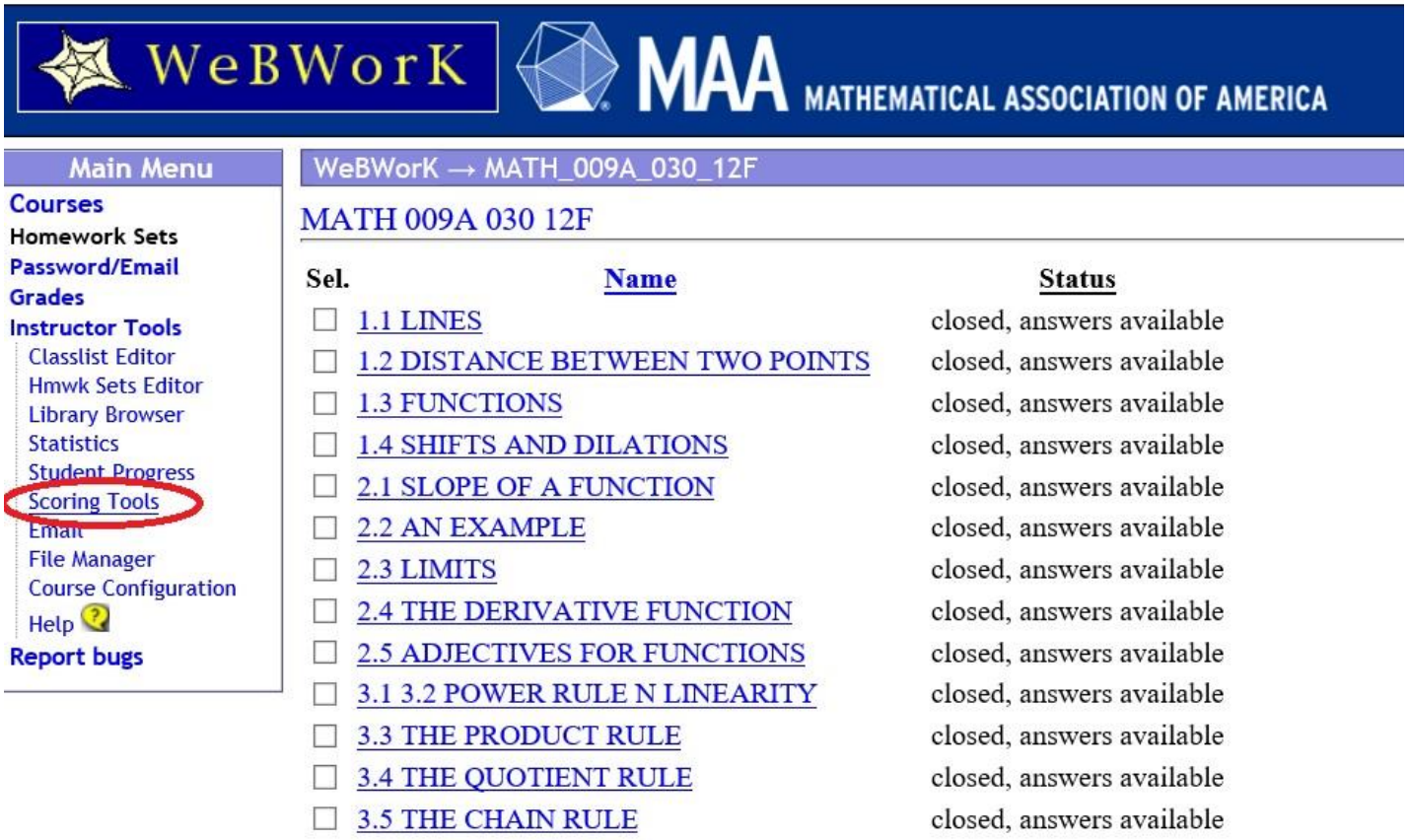
Preview Answers | Submit answers

You have attempted this problem 0 times.
You have 5 attempts remaining.

Scoring The Homework Sets

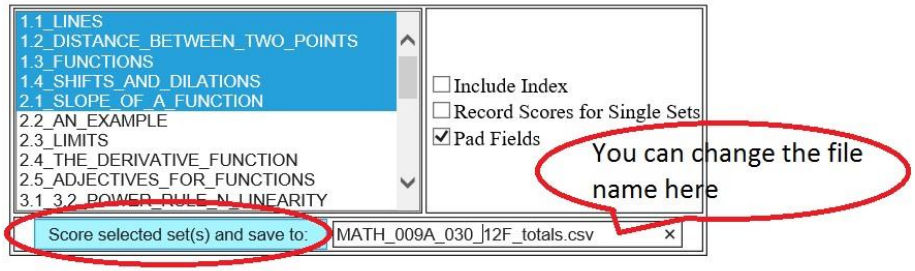
- You can wait until the end of the quarter and score all your homework sets together.
- However, it is recommended that you score them as they come due and backup a copy of your gradebook on your own computer or cloud.
- Each time you score a set, your old file is backed up and becomes a dot bak file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

Scoring The Homework Sets



Scoring The Homework Sets

Scoring Tools



Totals

MATH_009A_030_12F_totals.csv

```
NO OF FIELDS ,         ,             ,             ,         ,         ,                ,                              ,               ,                      ,
SET NAME     ,         ,             ,             ,         ,         ,1.1_LINES       ,1.2_DISTANCE_BETWEEN_TWO_POINTS ,1.3_FUNCTIONS ,1.4_SHIFTS_AND_DILATIONS ,2.1_S
PROB NUMBER  ,         ,             ,             ,         ,         ,                ,                              ,               ,                      ,
DUE DATE     ,         ,             ,             ,         ,         ,                ,                              ,               ,                      ,
DUE TIME     ,         ,             ,             ,         ,         ,                ,                              ,               ,                      ,
PROB VALUE   ,         ,             ,             ,         ,         ,7               ,6                             ,6              ,8                     ,2
STUDENT ID   ,login ID ,LAST NAME    ,FIRST NAME   ,SECTION  ,RECITATION ,total           ,total                         ,total          ,total                 ,total
861054044    ,mabou001 ,Abou-Ramadan ,Mohammad     ,         ,         ,7.0             ,6.0                           ,6.0            ,7.0                   ,2.0
861067146    ,kagui010 ,Aguilera     ,Kimberly     ,         ,         ,7.0             ,6.0                           ,5.0            ,8.0                   ,2.0
861023362    ,eamez002 ,Amez         ,Evelyn       ,         ,         ,0.0             ,0.0                           ,0.0            ,0.0                   ,0.0
860887197    ,kblak002 ,Blakeman     ,Kelly        ,         ,         ,0.0             ,0.0                           ,0.0            ,0.0                   ,0.0
861063685    ,gboba001 ,Bobadilla    ,Gabriela     ,         ,         ,7.0             ,6.0                           ,6.0            ,4.8                   ,1.0
861057881    ,scart006 ,Carter       ,Siarra       ,         ,         ,6.0             ,5.3                           ,4.0            ,8.0                   ,1.2
861061593    ,ccerv018 ,Cervantes    ,Crystal      ,         ,         ,7.0             ,6.0                           ,6.0            ,7.8                   ,2.0
861077962    ,nchan013 ,Chan         ,Nelson       ,         ,         ,7.0             ,6.0                           ,6.0            ,7.5                   ,2.0
861050649    ,lcheu003 ,Cheung       ,Lok          ,         ,         ,7.0             ,6.0                           ,4.5            ,7.8                   ,1.8
861047390    ,acho011  ,Cho          ,Alice        ,         ,         ,7.0             ,6.0                           ,6.0            ,7.0                   ,2.0
```

Scoring The Homework Sets

Scoring Tools

1.1_LINES
1.2_DISTANCE_BETWEEN_TWO_POINTS
1.3_FUNCTIONS
1.4_SHIFTS_AND_DILATIONS
2.1_SLOPE_OF_A_FUNCTION
2.2_AN_EXAMPLE
2.3_LIMITS
2.4_THE_DERIVATIVE_FUNCTION
2.5_ADJECTIVES_FOR_FUNCTIONS
3.1_3.2_POWER_RULE_N_LINEARITY

☐ Include Index
☐ Record Scores for Single Sets
☑ Pad Fields

Score selected set(s) and save to: MATH_009A_030_12F_totals.csv

Totals

MATH_009A_030_12F_totals.csv

After scoring, click on this link to open the file and save it to your own computer or cloud.

```
NO OF FIELDS ,          ,                ,                ,         ,            ,           ,
SET NAME     ,          ,                ,                ,         ,            ,1.1_LINES ,1.2_DISTANCE_BETWEEN_TWO_POINTS
PROB NUMBER  ,          ,                ,                ,         ,            ,           ,
DUE DATE     ,          ,                ,                ,         ,            ,           ,
DUE TIME     ,          ,                ,                ,         ,            ,           ,
PROB VALUE   ,          ,                ,                ,         ,            ,7          ,6
STUDENT ID   ,login ID ,LAST NAME       ,FIRST NAME      ,SECTION ,RECITATION ,total      ,total
861054044    ,mabou001 ,Abou-Ramadan    ,Mohammad        ,         ,            ,7.0        ,6.0
861067146    ,kagui010 ,Aguilera        ,Kimberly        ,         ,            ,7.0        ,6.0
861023362    ,eamez002 ,Amez            ,Evelyn          ,         ,            ,0.0        ,0.0
860887197    ,kblak002 ,Blakeman        ,Kelly           ,         ,            ,0.0        ,0.0
861063685    ,gboba001 ,Bobadilla       ,Gabriela        ,         ,            ,7.0        ,6.0
861057881    ,scart006 ,Carter          ,Siarra          ,         ,            ,6.0        ,5.3
861061593    ,ccerv018 ,Cervantes       ,Crystal         ,         ,            ,7.0        ,6.0
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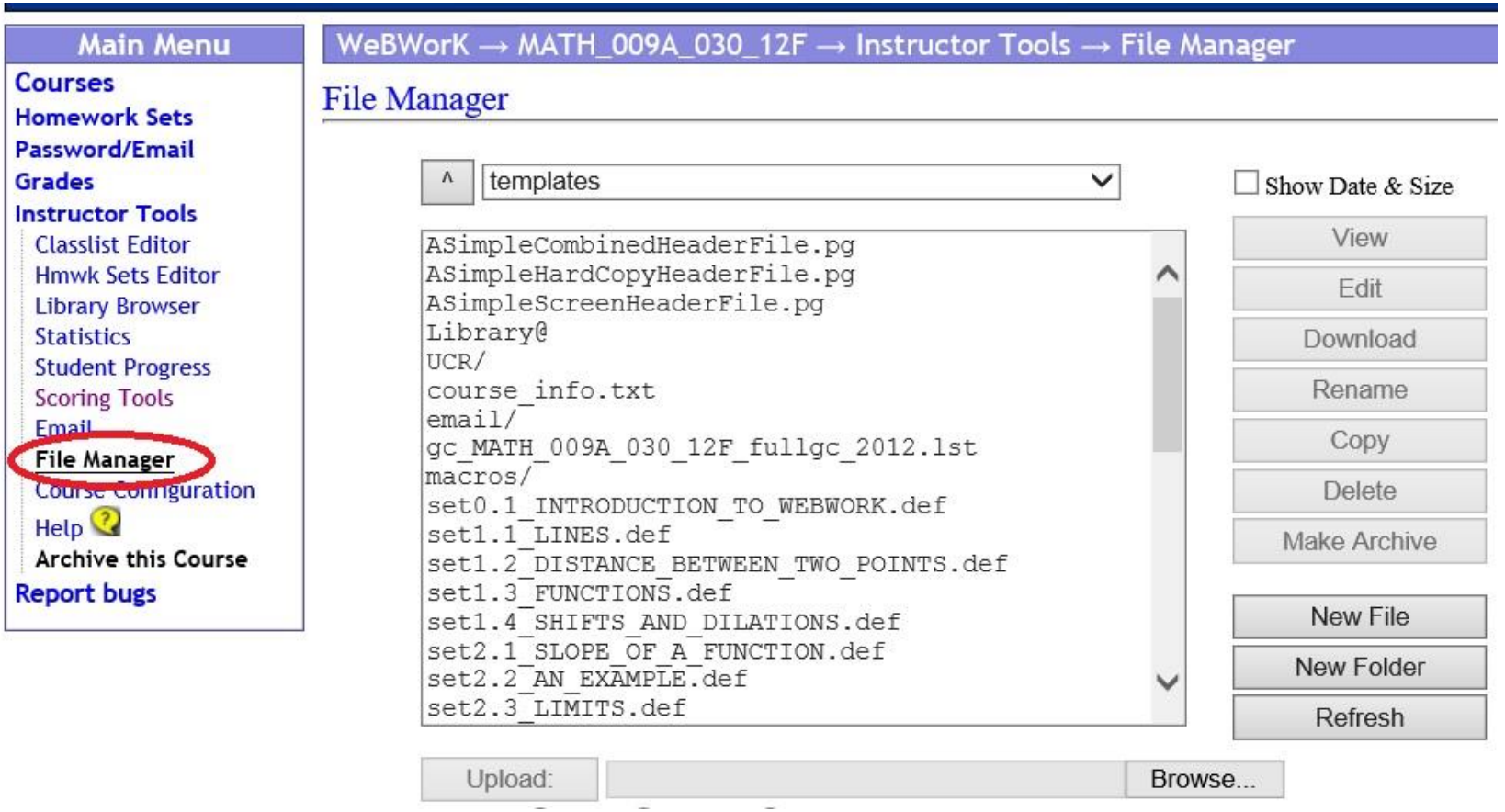
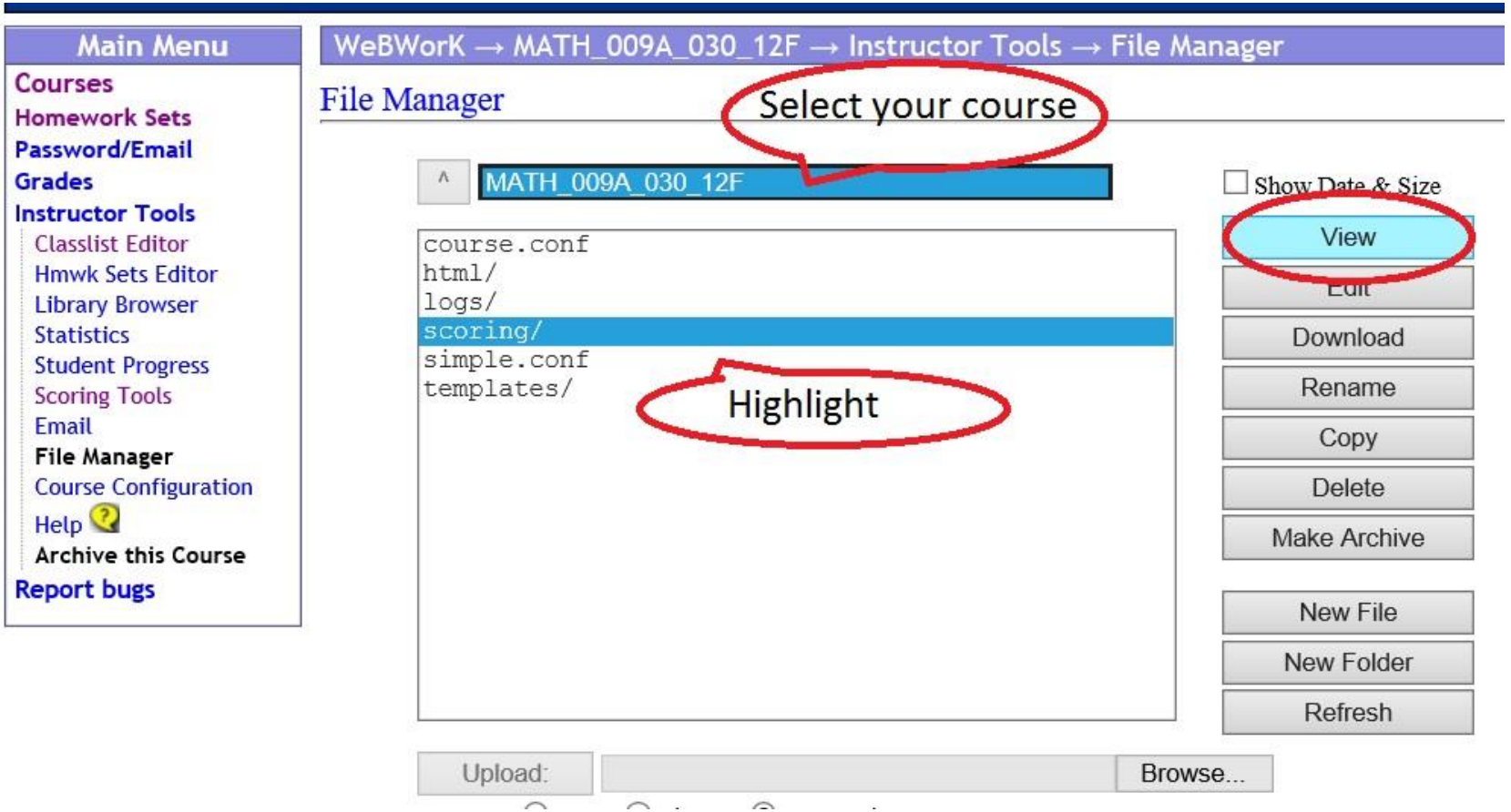
Finding Your Gradebook



Finding Your Gradebook



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