

BCC WEBWORK GUIDE FOR STUDENTS

DEPARTMENT OF MATH AND COMPUTER SCIENCE

1. HOW TO USE WEBWORK TO DO HW

- (1) Find a computer with Internet access. If you do not have computer with internet access, you can find one on campus. There are 16 computer labs located throughout the campus which are equipped with networked microcomputers. All of the labs have Internet access. Check out the appendix for the computer lab locations.
- (2) Log into WeBWorK:
 - Open a browser and input the URL: <http://wvm01.bcc.cuny.edu/webwork2>
 - Find your course (by course number and your professor's name) and click on it – Be careful – your professor may have two different classes or sections so please make sure to click on the right one. Bookmark it or save the URL somewhere. Google “How to bookmark URLs” if you do not know how.
 - Your username is your BCC OSSES ID. It is the part of your BCC email address that comes before '@stu.bcc.cuny.edu' and is usually your first name and dot followed by your last name. This is not necessarily the username you use to sign into CUNYFirst! For example, if your e-mail is “fstname.lstname@stu.bcc.cuny.edu”, your username for WebWork is “fstname.lstname”. *All letters in the username should be in lower-case.* If you have numbers in your email address, they should be included too. For example if your email is “amy.smith01@stu.bcc.cuny.edu”, then your username is “amy.smith01” Your password is your BCC OSSES password. If you do not have a BCC account, you can visit the Helpdesk in Colston Hall room 806 to obtain a user account and password. Please do not change password through Webwork!
 - Enter your login name and password. If your login is not correct, you will be told so, and you can try to log in again – If your login doesn't work, talk to your instructor.
- (3) After you log into WeBWorK you will get to the main page, which looks similar to the following:

The screenshot shows the WeBWorK interface for the course MTH05_Demo_10. On the left is a sidebar menu with the following items: MAIN MENU, Courses, Homework Sets (highlighted), Password/Email, Grades, Instructor Tools (Classlist Editor2, Hmwk Sets Editor2, Library Browser, Statistics, Student Progress, Scoring Tools), Email, File Manager, Course Configuration, Help, and Report bugs. The main content area has a breadcrumb trail 'webwork / MTH05_Demo_10' and a title 'MTH05_Demo_10'. Below the title is a table of Homework Sets with columns: Name, Test Score, Test Date, and Status. The table contains three rows:

Name	Test Score	Test Date	Status
<input type="checkbox"/> HW1-Review of Fractions			now open, due 02/02/2014 at 11:00pm EST
<input type="checkbox"/> MTH05FinalPracticeProblems			will open on 02/28/2014 at 11:00pm EST
<input type="checkbox"/> HW0-Orientation			closed, answers recently available

Below the table are several buttons: 'Take MTH05SampleFinal test' (with a status of 'will open on 02/28/2014 at 11:00pm EST'), 'Clear', 'Download PDF or TeX Hardcopy for Selected Sets', and 'Email instructor'.

The problem sets will be labeled OPEN or CLOSED. OPEN means you can work on the set and it can count towards your grade. CLOSED means that the set is not open and

you can not work on it. If the problem set is past the due date, you should be able to click on the problem set and view the solutions.

(4) Select a problem set by clicking on it. For example you will see the following:

The screenshot shows the WeBWorK interface for the 'MTH05_Demo_10' homework set. The left sidebar contains a 'MAIN MENU' with links for 'Courses', 'Homework Sets', 'Password/Email', and 'Grades'. The 'Homework Sets' section is active, showing a list of sets. A red arrow points to the 'HW1-Review of Fractions' link. Below the list are buttons for 'Clear', 'Download PDF or TeX Hardcopy for Selected Sets', and 'Email instructor'.

Homework Sets			
Name	Test Score	Test Date	Status
<input type="radio"/> HW1-Review of Fractions			now open, due 02/02/2014 at 11:00pm EST
<input type="radio"/> MTH05FinalPracticeProblems			will open on 02/28/2014 at 11:00pm EST
<input type="radio"/> HW0-Orientation			closed, answers recently available
MTH05SampleFinal test			will open on 02/28/2014 at 11:00pm EST

(5) Then you can now begin doing the problem (by clicking on the problem).

The screenshot shows the WeBWorK interface for the 'HW1-Review of Fractions' problem set. The left sidebar contains a 'MAIN MENU' with links for 'Courses', 'Homework Sets', 'Password/Email', and 'Grades'. The 'Homework Sets' section is active, showing a list of sets. A red arrow points to the 'Problem 1' link. Below the list are buttons for 'Up', 'Down', and 'Apply Options'.

Problems				
Name	Attempts	Remaining	Worth	Status
<input type="radio"/> Problem 1	0	unlimited	1	0%
<input type="radio"/> Problem 2	0	unlimited	1	0%
<input type="radio"/> Problem 3	0	unlimited	1	0%
<input type="radio"/> Problem 4	0	unlimited	1	0%
<input type="radio"/> Problem 5	0	unlimited	1	0%
<input type="radio"/> Problem 6	0	unlimited	1	0%
<input type="radio"/> Problem 7	0	unlimited	1	0%

The screenshot shows the WeBWorK interface for the 'HW1-Review of Fractions: Problem 1' problem page. The left sidebar contains a 'MAIN MENU' with links for 'Courses', 'Homework Sets', 'Password/Email', and 'Grades'. The 'Homework Sets' section is active, showing a list of sets. A red arrow points to the 'Problem 1' link. Below the list are buttons for 'Up', 'Down', and 'Apply Options'.

(1 pt) Replace the letters with natural numbers so that the resulting equations are true.

$$\frac{1}{2} = \frac{A}{4} = \frac{6}{B} = \frac{C}{22} = \frac{18}{D}$$

A =
 B =
 C =
 D =

Note: You can earn partial credit on this problem.

[Preview Answers](#) [Submit Answers](#)

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

[Email instructor](#)

Work out the problem, input your answers (refer to “How to Enter Answers in Webwork” in the appendix), you can preview your answers:

webwork / mth05_demo_10 / hw1-review_of_fractions / 1

HW1-Review of Fractions: Problem 1

Prev

Up

Next

(1 pt) Replace the letters with natural numbers so that the resulting equations are true.

$$\frac{1}{2} = \frac{A}{4} = \frac{6}{B} = \frac{C}{22} = \frac{18}{D}$$

A =

B =

C =

D = π

preview your answers
before you submit

Note: You can earn partial credit on this problem.

Preview Answers

Submit Answers

You have attempted this problem 0 times.

You have unlimited attempts remaining.

Email instructor

After you confirm with your answers, you can submit them for grading:

HW1-Review of Fractions: Problem 1

Prev

Up

Next

PREVIEW ONLY -- ANSWERS NOT RECORDED

Entered	Answer Preview
2	2
12	12
11	11
36	36

(1 pt) Replace the letters with natural numbers so that the resulting equations are true.

$$\frac{1}{2} = \frac{A}{4} = \frac{6}{B} = \frac{C}{22} = \frac{18}{D}$$

A =

B =

C =

D =

submit your answers

Note: You can earn partial credit on this problem.

Preview Answers

Submit Answers

After you submit your answers, you will see if it is correct or not right away. Now you can fix the problem if there is any mistake and repeat the above steps. You can also move to the next problem or get back to the problem list:

HW1-Review of Fractions: Problem 1

Prev **Up** **Next** → go to next problem

Entered	Answer Preview	Result
2	2	correct
12	12	correct
11	11	correct
36	36	correct

← back to the list of problems

All of the answers above are correct.

(1 pt) Replace the letters with natural numbers so that the resulting equations are true.

$$\frac{1}{2} = \frac{A}{4} = \frac{6}{B} = \frac{C}{22} = \frac{18}{D}$$

A = 2
 B = 12
 C = 11
 D = 36

Note: You can earn partial credit on this problem.

Preview Answers

Submit Answers

You now can see you scores by click on "Grades" in the menu on the left.

WebWork
MAA
MATHEMATICAL ASSOCIATION OF AMERICA

MAIN MENU

[Courses](#)

[Homework Sets](#)

[Password/Email](#)

Grades

webwork / mth05_demo_10 / Grades

Grades

Set	Score	Out Of	Problems
HWO-Orientation	0.00	0	1 2 3 4 5 6 7 8 9 10 11 12 13
HW1-Review of Fractions	1.00	10	C 0 0 0 0 0 0 0 0 0 0
MTH05FinalPracticeProblems	0.00	34 0 0 0 0 0 0 0 0 0 0 0 0

This is your score

C means Correct

click on this you will see the grades as shown in the right

After you submit your homework, you do not need to email your instructor this info. Webwork will keep track of your score. Correct answers will be released after the due date. Please note that as a security measure, if you are logged on to WebWork for longer than 30 minutes without any activity, you will be asked to log in again. Your previous work will be saved. Note that "Download a hardcopy of this problem set." is also an option – you may download the hardcopy, print it out and come back to input answers on WebWork –

as shown in the following pictures.

webwork / MTH05_Demo_10

MTH05_Demo_10

Homework Sets		
Name	Test Score	Test Date
<input checked="" type="radio"/> HW1-Review of Fractions		now open, due 02/02/2014 at 11:00pm EST
<input type="radio"/> MTH05FinalPracticeProblems		will open on 02/28/2014 at 11:00pm EST
<input type="radio"/> HW0-Orientation		closed, answers recently available
MTH05SampleFinal test		will open on 02/28/2014 at 11:00pm EST

click on this a pdf file will show and you can print it out




MAA MATHEMATICAL ASSOCIATION OF AMERICA

webwork / mth05_demo_10 / Hardcopy Generator

Hardcopy Generator

Download hardcopy of set HW1-Review_of_Fractions for ?

You may choose to show any of the following data. Correct answers & solutions are hidden.

Show: Student answers Correct answers Hints Solutions

Hardcopy Format: Adobe PDF LaTeX

click on this

The correct answers normally show after the hw due date

Assignment HW1-Review_of_Fractions due 02/02/2014 at 11:00pm EST MTH05_Demo_10

1. (1 pt) Replace the letters with natural numbers so that the resulting equations are true.

$$\frac{1}{2} = \frac{A}{4} = \frac{6}{B} = \frac{C}{22} = \frac{18}{D}$$

A = ___
B = ___
C = ___
D = ___

Answer(s) submitted:

- 2
- 22
- 21
- 36

(correct)

2. (1 pt) Replace the letters with natural numbers so that the resulting equations are true.

$$\frac{3}{4} = \frac{A}{12} = \frac{15}{B} = \frac{C}{48} = \frac{54}{D}$$

A = ___
B = ___
C = ___
D = ___

Answer(s) submitted:

-

4. (1 pt) Simplify the fraction to the simplest form.

$$\frac{4}{22} = \frac{\quad}{\quad}$$

Answer(s) submitted:

-
-

(incorrect)

5. (1 pt) Simplify the fraction to the simplest form.

$$\frac{18}{81} = \frac{\quad}{\quad}$$

Answer(s) submitted:

-
-

(incorrect)

6. (1 pt) Simplify the fraction to the simplest form.

$$\frac{30}{40} = \frac{\quad}{\quad}$$

Answer(s) submitted:

-
-

(incorrect)

7. (1 pt) Simplify the fraction to the simplest form.

$$\frac{24}{84} = \frac{\quad}{\quad}$$

Answer(s) submitted:

-

2. WHAT TO DO IF YOU HAVE PROBLEMS WITH WEBWORK:

- If you have a problem logging in, check whether your bcc account password has expired and contact the Helpdesk at Colston 806.
- If you have questions on specific homework problems or if you have comments about WeBWorK that you think can help us make WeBWorK better, click on the 'Email

Instructor' button

A blue rectangular button with rounded corners containing the text "Email instructor" in white.

on any of the pages of WeBWorK.

How to Enter Answers in WeBWorK

Addition	+	$a+b$ gives $a+b$
Subtraction	-	$a-b$ gives $a-b$
Multiplication	*	$a*b$ gives ab
Multiplication may also be indicated by a space or juxtaposition, such as $2x$, $2x$, $2*x$, or $2(x+y)$.		
Division	/	a/b gives $\frac{a}{b}$
Exponents	^ or **	a^b gives a^b as does $a**b$
Parentheses, brackets, etc		(...), [...], {...}

Syntax for entering expressions

- Be careful entering expressions just as you would be careful entering expressions in a calculator.
- Sometimes using the * symbol to indicate multiplication makes things easier to read. For example $(1+2)*(3+4)$ and $(1+2)(3+4)$ are both valid. So are $3*4$ and $3\ 4$ (3 space 4, not 34) but using an explicit multiplication symbol makes things clearer.
- Use parentheses (), brackets [], and curly braces {} to make your meaning clear.
- Do not enter $2/4+5$ (which is $5\frac{1}{2}$) when you really want $2/(4+5)$ (which is $2/9$).
- Do not enter $2/3*4$ (which is $8/3$) when you really want $2/(3*4)$ (which is $2/12$).
- Entering big quotients with square brackets, e.g. $[1+2+3+4]/[5+6+7+8]$, is a good practice.
- Be careful when entering functions. It is always good practice to use parentheses when entering functions. Write $\sin(t)$ instead of $\sin t$ or $\sin t$. WeBWorK has been programmed to accept $\sin t$ or even $\sin t$ to mean $\sin(t)$. But $\sin 2t$ is really $\sin(2)t$, i.e. $(\sin(2))^t$. Be careful.
- Be careful entering powers of trigonometric, and other, functions. You write $(\sin(t))^2$ for the square of $\sin(t)$, and *never* $\sin^2 t$.
- For example for the expression $2+3\sin^2(4x)$, $2+3\sin^2(4x)$ is wrong. You should enter: $2+3*(\sin(4*x))^2$. Why does the last expression work?

Please Excuse My Dear Aunt Sally

Operations in parentheses are always done first ($4*x$) and then $(\sin(4*x))$, next all exponents are taken, giving $(\sin(4*x))^2$, next all multiplications and divisions are performed, giving $3*(\sin(4*x))^2$. Finally, all additions and subtractions are performed, giving $2+3*(\sin(4*x))^2$.

- Remember that multiplication and division have the same precedence and there are no universal rules as to which should be done first in the **absence** of parentheses. WeBWorK

and many computers read things from left to right, so $2/3*4$ means $(2/3)*4=8/3$. But some other computers will read $2/3*4$ as $2/(3*4)=1/6$. The same lack of consistent rules concerns powers, expressions like 2^3^4 .

The only way to insure that you are entering what you want to enter is the use of parentheses!!!

- Use the Preview Button to see exactly how your entry appears to the system. For example, to tell the difference between $1+2/3+4$ and $[1+2]/[3+4]$ click the Preview Button.
- If a problem calls for a decimal answer, give at least four decimal digits, or as many as the problem specifies. For example, write 2.3453 instead of 2.34.

Intervals in WeBWork

What is the domain of $f(x) = \sqrt{x}$? One answer is $x \geq 0$ (x is greater than or equal to 0). The best way to enter this in WeBWork is by using interval notation: $[0, \text{infinity})$.

Other intervals:

$(2,3]$ is the set $2 < x \leq 3$.

$(-\text{infinity},5)$ is the set $x < 5$.

$(-\text{infinity}, \text{infinity})$ is the set of all real numbers.

$(2,3] \cup [4,5)$ is the set $\{2 < x \leq 3 \text{ or } 4 \leq x < 5\}$. (This is a union of two intervals and can be very important.)

Mathematical Constants Available In WeBWork

pi This gives $\pi \approx 3.14159265358979$. So $\cos(\text{pi})$ is -1 .

e This gives $e \approx 2.718281828459045$. So, $\ln(e*2)$ is $1 + \ln(2)$

Scientific Notation Available In WeBWork

2.1E2 gives 210

2.1E-2 gives 0.021

aEb gives $a \times 10^b$

Cube roots and n th Roots

$x^{(1/3)}$ gives $\sqrt[3]{x}$, the cube root of x

$x^{(1/n)}$ gives $\sqrt[n]{x}$, the n th root of x

$x^{(p/q)}$ gives $(\sqrt[q]{x})^p$

Mathematical Functions Available In WeBWork

- abs() $|x|$, the absolute value
- cos() the cosine function. Note: the cosine function uses radian measure
- sin() the sine function. Note: the sine function uses radian measure
- tan() the tangent function. Note: the tangent function uses radian measure
- sec() the secant function. Note: the secant function uses radian measure and

$$\sec(x) = \frac{1}{\cos(x)}$$

- exp() the exponential function, e^x
- log() The natural logarithm function. Note that this is NOT the common log function from pre-fact(n) = $n(n-1)(n-2)\cdots(3)(2)(1)$ calculus.
- ln() Another, more common name for the natural logarithm, $\ln(x)$
- logten() The common logarithm or log base 10, $\log_{10}(x)$
- arcsin() The inverse sine function. asin() is another name for arcsine.
- arccos() The inverse cosine function. acos() is another name for arccosine.
- arctan() The inverse tangent function. atan() is another name for arctangent.
- sqrt() The square root function

sgn() The sign function — $\text{sgn}(x) = \begin{cases} -1 & \text{if } x < 0 \\ 0 & \text{if } x = 0 \\ 1 & \text{if } x > 0 \end{cases}$

step() The step function — $\text{step}(x) = \begin{cases} 0 & x < 0 \\ 1 & x \geq 0 \end{cases}$ (0 if $x < 0$, 1 if $x \geq 0$)

fact() The factorial function (defined only for non-negative integers),
 $\text{fact}(n) = (n)(n-1)(n-2)\cdots(3)(2)(1)$

Academic Computing

- Assistive Technology for Students with Disabilities
- Computer Facilities
- Helpful Links
- Hours of Service
- Policies
- Security Awareness Training
- Software for Use
- Staff Directory
- What's New



Welcome » Services » Academic Computing » Computer Facilities

Computer Facilities

Academic Computing consists of 16 computer labs located throughout the campus which are equipped with networked microcomputers. All of the labs have Internet access.

The following computer labs are setup with COMWEB

- [ME 201](#) [ME 224](#) [ME 302](#)
- [ME 318](#) [ME 320](#) [ME 328](#)
- [ME G16](#)

The following computer labs are equipped with wireless connectivity

- [ME 329](#) [RBSC 308](#) [RBSC 309](#)

Listed below are the locations, supervisors (day/eve) and telephone numbers of the computer labs.

Roscoe Brown Center 308

WIRELESS!
MAC OSX/MS WINDOWS

Lab Supervisor(s):

[Aisha Pearson](#)
[Benjamin John Rose](#)

718.289.5100 Ext. 3540

Roscoe Brown 309

WIRELESS!
MS WINDOWS

Lab Supervisor(s):

[Malik Le-Gare](#)

New Hall 23

MS WINDOWS

Lab Supervisor(s):

[Alfida Morel](#)

718.289.5005

Meister Hall 201

MS WINDOWS
COMWEB READY

Lab Supervisor(s):

[Africa Gomez](#)
[Benjamin Ankomah](#)

718.289.5442

Meister Hall 224

DOUBLE ROOM LAB!
MS WINDOWS
COMWEB READY

Lab Supervisor(s):

[Ralph Perez](#)
[Brian Alejo](#)

718.289.5424

Meister Hall 225

DOUBLE ROOM LAB!
MAC OSX

Lab Supervisor(s):

[Ralph Perez](#)
[Brian Alejo](#)

718.289.5424

Meister Hall 302

MS WINDOWS
COMWEB READY

Lab Supervisor(s):

[Subramaria Venkata](#)

718.289.5492

Meister Hall 318

MS WINDOWS
COMWEB READY

Lab Supervisor(s):

[Nilda Rodriguez](#)
[Nicolas Estrella](#)

718.289.5500

Meister Hall 320

MS WINDOWS
COMWEB READY

Lab Supervisor(s):

[Robelkys Vargas](#)
[Eddy Gonzalez](#)

718.289.5376

Meister Hall 328

DOUBLE ROOM LAB!
MS WINDOWS
COMWEB READY

Lab Supervisor(s):

[Jessica Gomez](#)
[Fernando Mercado](#)

Meister Hall 329

WIRELESS!
MAC OSX/MS WINDOWS

Lab Supervisor(s):

[Nancy Gonzalez](#)
[Zoila Morillo](#)

718.289.5504

Meister Hall G01

DOUBLE ROOM LAB!
MAC OSX/MS WINDOWS

Lab Supervisor(s):

[Yohan Heredia](#)
[Jaimy Peña](#)

718.289.5578

Meister Hall G02DOUBLE ROOM LAB!
MAC OSX/MS WINDOWS**Lab Supervisor(s):**Yohan Heredia
Jaimy Peña

718.289.5578

Meister Hall G16DOUBLE ROOM LAB!
MS WINDOWS
COMWEB READY**Lab Supervisor(s):**Francisco Morel
Yuderka Altgracia

718.289.5592

Meister Hall G17DOUBLE ROOM LAB!
MS WINDOWS**Lab Supervisor(s):**Francisco Morel
Yuderka Altgracia

718.289.5592

Loew Hall 320

MS WINDOWS

Lab Supervisor(s):Yra Yza Francisco
Christian Miranda

718.289.5878

Colston Hall 602/603

MS WINDOWS

Lab Supervisor(s):Yuderka Altgracia
Ismeyda Batista

718.289.5733

Carl Polowczyk Hall 320

MS WINDOWS

Lab Supervisor(s):Victoria Acevedo
Henry Guzman

718.289.5417

Brown Annex 107

MS WINDOWS

Lab Supervisor(s):Mayuri Lora
Maxi Cruz

Ext. 718.289.5100 Ext. 3137

FUTURE STUDENTS

- Academic Departments
- Admission & Recruitment
- Apply Online
- College Catalog
- Continuing & Professional Studies
- Degree Programs
- Freshman Students
- International Students
- Transfer Students

CURRENT STUDENTS

- Computer Labs
- Early Childhood Center
- Financial Aid
- Health Services
- IT Workshops
- OSSES
- Registrar's Office
- Scholarship Center
- Student Life
- Study Abroad

FACULTY/STAFF

- Center for Sustainable Energy
- Center for Teaching Excellence
- Faculty Handbook
- Human Resources
- Information Technology
- Instructional Technology

ALUMNI & FRIENDS

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- Career Development
- Giving to BCC
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CUNY Alert!



Emergency Closing



Browse Aloud

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[Freedom of Information Law \(FOIL\)](#)





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