



Student Help

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System Overview

Maple T.A. uses banks of questions from class homework, test items, or other class problem material as the basis to construct assignments. Once you log in, you can complete the assignments and submit them for immediate, automatic grading.

- When you log in to the system, you enter the System Homepage. From here, you can access the Class Homepage of any class you are taking, access the help system, and change your password.
- Each class has its own Class Homepage that contains assignment material specific to your course and instructor. Your instructor may use your graded results on system homework assignments to determine part of your grade in the class.
- Your instructor controls the rules and policies for assignments, which can range from self-study and homework sessions to proctored exams. When an assignment is published, your instructor determines when it is available, establishes the due date, sets grading parameters, and records grades in the system Gradebook.
- The system provides you with a graded assignment report that may include feedback about incorrect answers and other helpful study information.
- The system can deliver randomly-generated variable data inside questions, which means that many assignments can be attempted more than once (depending on your instructor's preferences). You will find that algorithmically-generated assignments provide an opportunity to practice the problem-solving skills required in your course.
- You can view past assignment results in the Gradebook.

Getting Help

Use the Help menu to access help at any time.

In addition, help for math questions is available from the Help link that appears below the student response area in math questions, as shown below:

Class 1, Assignment 1

Question 7: (1 point)
Factor the equation $x^2 - 2x + 1$.

[Plot](#) | [Help](#) | [Change Math Entry Mode](#) | [Preview](#)

Note: Contact your instructor if you cannot find an answer to system-related questions or if you encounter other problems with questions, assignments, or grading.

Student System Requirements

The following is a list of the minimum system requirements to access Maple T.A. System performance may vary based on the speed of your Internet connection.

All clients require a Java-enabled browser.

Important: To use the **Equation Editor**, your browser requires a Java Plug-in 1.4.2 or later.

Windows

- Platforms: Windows 2000/XP/2003/Vista
- Browsers: Internet Explorer® 6.x+, Firefox 1.5+
- 300 MHz processor or better
- 64 MB RAM or better

Macintosh

- Platform: Mac OS X 10.4.5 or later
- Browsers: Firefox 1.5+
- 333 MHz processor or better
- 64 MB RAM or better

Linux

- Platforms: SUSE 9.2, 9.3, 10.1, 10.2; Red Hat Enterprise 3.0, 4.0; Ubuntu 7.10
- Browsers: Firefox 1.5+
- 300 MHz processor or better
- 64 MB RAM or better

Internet Access

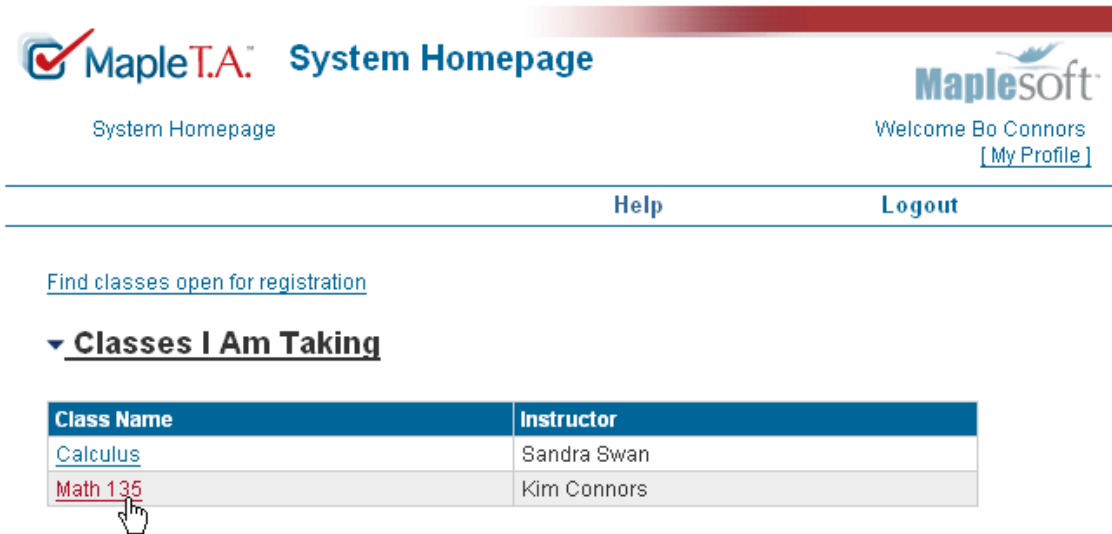
- 56K Modem Dial-up Connection
- Broadband - Cable Modem or DSL - Internet connection is recommended for optimal performance.

Class Home Page

The Class Homepage

Your instructor (or teaching assistant) provides you with a student ID and password. Once you login to the Maple T.A. system, you will see the **System Homepage**. If you are pre-enrolled in a class, it will appear under the **Classes I Am Taking** section. If you don't see a list of classes, you can register in any class that has open registration by clicking on **Find classes open for registration**.

Access the Class Homepage for a class by clicking the class name under Classes I Am Taking.



Maple T.A. System Homepage

MapleSoft
Welcome Bo Connors
[\[My Profile\]](#)

[System Homepage](#) [Help](#) [Logout](#)

[Find classes open for registration](#)

Classes I Am Taking

Class Name	Instructor
Calculus	Sandra Swan
Math 135	Kim Connors

From the Class Homepage, you can perform the following actions:

- [Select an Assignment](#)
- [View Past Results from previously completed assignments](#)
- [Change Your Password](#)

Math 135

Maplesoft
 Kim Connors

Select the link for an assignment to begin:

Assignment Name	Points	Type	Availability	
Demonstration of the Maple-graded Question Type	25.0	Practice	Unlimited	
Assignment 2	3.0	Homework/Quiz	Unlimited	policies
Proctor Test	7.0	Proctored	Unlimited	
Demonstration of Question Types	63.0	Practice	Unlimited	
Demonstration Assignment	4.0	Homework/Quiz	Unlimited	
Assignment 3	4.0	Homework/Quiz	Unlimited	

Registering as a Student in a Class

As a student, you start by registering in your instructor's class.

Note: Your instructor can set up a class roster for your class in advance of your first encounter with the system. If this is the case for your class, your instructor may distribute system IDs and passwords in your first session.

To register for a class:

1. On the System Homepage, click the Find classes open for registration link.

[Find classes open for registration](#)

2. Browse the list of classes, or search for a specific class. Select the class in which you want to register and click **Register**.

- Confirmation is requested. To continue, click Confirm.
- Your System Homepage now lists the class under the Classes I Am Taking section.

Important: Keep your account access information private from your fellow classmates. Your results may be used to award course credit or determine your grade.

Once you are registered in the class, you can access the Class Homepage.

Select Assignments

In the Class Homepage, the list of assignments that displays is determined by your instructor, who has chosen the questions, set the rules and policies, and published each assignment for your use.

Once an assignment is created, your instructor can also set rules to restrict assignment access, decide what feedback is displayed upon grading, set passing grade levels, and determine how grades are recorded in the system Gradebook.

Your instructor determines when assignments will be available to you, and also sets assignment deadlines. You must complete an assignment and submit it for grading prior to a deadline, after which you will not be allowed to continue for credit.

To access an assignment:

Click the assignment link that you would like to open from the list provided.

Math 135

Maplesoft
Kim Connors

Select the link for an assignment to begin:

Assignment Name	Points	Type	Availability	
Demonstration of the Maple-graded Question Type	25.0	Practice	Unlimited	
Assignment 2	3.0	Homework/Quiz	Unlimited	policies
Proctor Test	7.0	Proctored	Unlimited	
Demonstration of Question Types	63.0	Practice	Unlimited	
Demonstration Assignment	4.0	Homework/Quiz	Unlimited	
Assignment 3	4.0	Homework/Quiz	Unlimited	

Change Your Password

To change your password:

- Click the link to My Profile located above the Logout menu.

[Find classes open for registration](#)

▼ **Classes I Am Proctoring**

Class Name	Instructor
Calculus 101	Jack Day

▼ **Classes I Am Taking**

Class Name	Instructor
Calculus	Sandra Swan
Math 135	Kim Connors

2. Click Password Update.

Password Update

Your password should be at least 5 characters long and are case-sensitive. Please do not enter accented characters. We recommend that your password is not a word you can find in the dictionary, includes both capital and lower case letters, and contains at least one special character (1-9, !, *, _, etc.).

Full Name John Amberry
Password
Confirm Password

3. Enter and confirm your new password. Click Submit.

Your Profile

To access your user profile, click the My Profile link above the Logout menu.

[Edit User](#)[Password Update](#)

User Details

First Name	John
Last Name	Amberry
Display Name	John Amberry
Student ID	465897
Email	jamberry@123.com
User Login	jamberry
Account Status	Active

Your profile includes the following information:

- First name
- Last name
- Display name
- Student ID
- Email
- User login
- Account status

From this page, you can [update your password](#).

Anonymous Practice Assignments

Anonymous practice assignments:

- Grades are *not* recorded in the class Gradebook.
- Grades are *not* saved to your user profile.
- No class credit is awarded for completion.

Anonymous practice assignment features:

- You are presented with an instructor-selected series of questions.
- You can navigate freely between questions, answering questions out of sequence until you submit the assignment for grading.
- The total number of questions in a particular assignment appears in the upper-right corner of your screen.
- You complete all questions.
- All responses are submitted for grading at the same time.

- The system warns you if you have not completed all the assignment questions, or if you have entered responses that may cause problems, for example, responding to a question that expects an equation as your entry without including an = sign.
- You can attempt the assignment more than once; however, each assignment session is unique and your graded results are lost when you start a new attempt or close your browser.

Grading Essay Questions

Essay questions are not automatically graded by Maple T.A. Instead, student responses are sent to the instructor, who scores them in the traditional manner and assigns a grade in the Gradebook. No answer or feedback is immediately available. However, you can return to your assignment results and view any available instructor feedback after your instructor has completed the grading.

Homework and Quiz Assignments

Homework and quiz assignments:

- Graded results on homework and quiz assignments are recorded in the class Gradebook and are available for you to view after assignment completion.

Homework and quiz assignment features:

- You are presented with a series of instructor-selected questions.
- You can navigate freely between questions, answering questions out of sequence until you submit the assignment for grading.
- The total number of questions in a particular assignment appears in the upper right corner of your screen.
- You complete all questions.
- All responses are submitted for grading at the same time.
- The system warns you if you have not completed all questions, or if you have entered responses that may cause problems, for example, responding to a question that expects an equation as your entry without including an = sign.

Rules and policies:

- Homework or quiz assignments can be attempted more than once (at the discretion of your instructor, who sets the policy for your assignments).
- You may be able to retake the assignment multiple times for practice or to improve your grade. Your instructor can assign an upper limit for the number of retakes you are allowed.
- Time limits can be assigned by your instructor indicating how long you can on an assignment within one session. If there is a time limit set for the assignment, a pop-up window warns you as you approach the time limit. You are not allowed to answer additional questions once you exceed the time limit.

Note: If you are interrupted during a homework assignment or quiz, you can log back into the system and return to the assignment where you left off. Your interaction with the system is saved as you move from one question to the next. See [Navigating Assignments](#).

Mastery Assignments

Mastery assignments:

- Graded assignment results for mastery assignments are recorded in the class Gradebook.

Mastery assignment features:

- Your instructor has selected a series of related questions and you must demonstrate your mastery by correctly answering a question or a minimum number of related questions from a question pool before continuing through the assignment to completion.
- The sequence through the assignment material is carefully planned by your instructor to achieve specific pedagogical objectives and cover a particular topical terrain.

- You respond to each question individually, and submit each response for grading.
- The system provides information about your progress versus requirements for the entire assignment. Your progress results are updated after every question you attempt and grade.

Rules and policies:

- In addition to setting the number of questions you must answer correctly at each level before proceeding, your instructor may also specify penalties for incorrect responses. For example, if you have answered the 3 questions about the third topic incorrectly, you may be required to answer additional questions about this topic or an earlier topic before moving on to topic 4.
- Unlike [Homework assignments](#), you cannot retake a mastery assignment for credit or a better grade than your initial attempt. This means that you can redo mastery assignments for practice only (provided your instructor has not limited the number of times you can work through the assignment).

Proctored Exams

Proctored exam assignments:

- Require you to secure a proctor's authorization prior to grading your responses.
- You may be required to secure a proctor's authorization to begin the assignment as well. Contact your instructor about securing proctor authorization.
- Graded results on homework and quiz assignments are automatically recorded in the class Gradebook; however, you may not be able to view results or feedback until after the exam due date.

Proctored exam features:

- You are presented with an entire test composed of questions selected by your instructor.
- The total number of questions in a particular assignment appears in the upper right corner of your screen
- You can navigate freely between questions and answer questions out of sequence until you submit your entire test for grading.

Rules and policies:

- You are only allowed to take a proctored exam once.
- Your instructor can impose a time limit on your assignment session.

Study Session Assignments

Study session assignments:

- Assignments are delivered one-question-at-a-time and you receive immediate scoring after each question.
- Grades are *not* recorded in the class Gradebook.
- Grades are *not* saved to your user profile.

Study session assignment features:

- You control the study process by practicing question after question.
- If specified by your instructor, hints and full solutions may be available to you while you work.

Types of Assignments

Assessment-style Assignments

- The system uses [Anonymous Practice](#), [Homework and Quiz](#), and [Proctored Exams](#) to deliver a complete test all at once. Your instructor selects the questions and sets policies.

- In assessment style assignments, you enter responses to an entire series of questions, one-at-a-time, and the system stores your responses between questions.
- Moving from question to question within an assignment is allowed until you complete all questions (or choose to ignore the warnings to do so) and submit your responses for automatic grading.
- For Homework & Quiz, and Proctored Exam assignments, graded assignment results are recorded in the class Gradebook.

Study Session and Mastery Assignments

- These assignments are usually drawn from a large pool of assignment material (often algorithmically generated to produce limitless question permutations).
- There is no pre-established number of questions for either Mastery or Study Session assignments, questions are drawn from pools throughout the assignment session.
- Assignments are delivered one-question-at-a-time, and you submit each question for grading individually and immediately, instead of having the entire test graded at the end.
- Mastery and Study Session assignments emphasize different approaches to learning.
 - For [Mastery](#) assignments, your instructor creates a carefully structured collection of questions grouped by learning objectives. Mastery assignments require a login and password, and results are recorded in the Gradebook.
 - For [Study Sessions](#), you control the study process by practicing question after question. Questions can provide hints and full solutions that are available while you work. Results are displayed one question at a time and are *not* recorded in the Gradebook.

Math Help

About Symbol Mode

The Symbol Mode for entering math expressions allows you to enter formulas in an editing window. You can select symbols and operators from [palettes](#), and see your expressions appear in standard mathematical layout as you type.

- In symbol mode, x squared divided by y appears as:

$$\frac{x^2}{y}$$

Using Symbol Mode

1. Verify that Symbol Mode is indicated in the [Equation Editor Modes](#) dialog box.
2. If you have changed to Symbol Mode from inside the question you want to edit, [load the question again](#).
3. Right-click in the Math Editor field. The main palette is displayed.
4. Click a palette to display all symbols in the palette group.
5. Select a symbol/expression. It is displayed in the Equation Editor field.
6. Modify as necessary.
7. Click Next to move to the next question.

Question 10: (1 point)

Enter an expression in x

Equation Editor [Help](#)

$\sin(x)$

a	b	$\sin(a)$	∞	α	π
-----	-----	-----------	----------	----------	-------

$\sin(a)$ $\cos(a)$ $\tan(a)$
 $\sec(a) \cdot \csc(a)$ $\cot(a)$
 $\sin^{-1}(a)$ $\cos^{-1}(a)$ $\tan^{-1}(a)$

About Text Mode

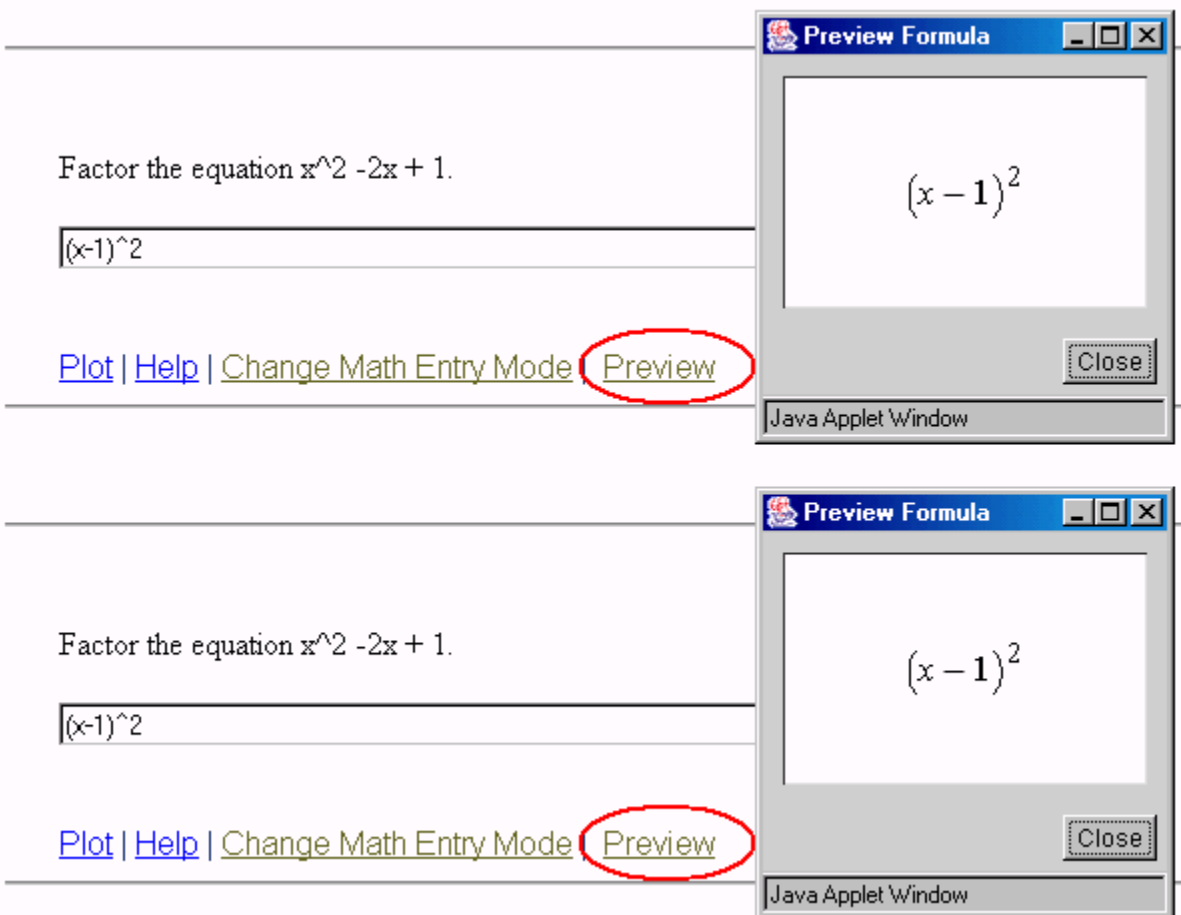
In Text Mode you enter your answer in a single line and use the Preview option to view your response as a typeset mathematics expression. Preview demonstrates how the system interprets your entry (inspecting it for misplaced parentheses and other unintended keystrokes).

- Text mode is quick and easy to use in any browser.
- Equations are entered directly from the keyboard, using a syntax similar to that used by graphing calculators.
- In text mode, x squared divided by y resembles the following.

$$(x^2)/y$$

Using Text Mode

1. Verify that Text Mode is indicated in the [Equation Editor Modes](#) dialog box.
2. Use the **Preview** option to view your entry in typeset form.
3. Your formula question should resemble the following.



4. Click inside the entry cell to begin. Enter your formula using [standard mathematical notation](#).

Note: The most common mistake is to forget parentheses "()". For example, the expression $1/(x+1)$ is different from $1/x+1$ which the system interprets that as $(1/x)+1$.

Basic Math Syntax in the System

When entering expressions in Text Mode or Symbol Mode with the Equation Editor, keep in mind the following.

- [Mathematical Expressions](#)
- [Variable Names](#)
- [Operator and Function Syntax](#)

Writing Mathematical Expressions

The basic syntax for entering mathematical formulas or expressions in the system enables you to quickly enter expressions using [2-D](#) notation. You can enter formulas using standard mathematical notation (similar to that used in a graphing calculator) and, in general, the system correctly interprets it.

For example, the following formula is acceptable.

$$(x^2-2x+1) 2\sin(x)(x^2+1)e^{(-x^2)}$$

Note: If a product includes one or more variables, always use an asterisk "*". For example, specify $2*xA$.

For a **Maple** question, you must always include an asterisk (*).

$$(x^2-2*x+1)*2*\sin(x)*(x^2+1)*e^{(-x^2)}$$

The most common mistake is to forget parentheses "()". For example, the expression:

$$1/(x+1)$$

is different from

$$1/x+1$$

which the system interprets that as:

$$(1/x) + 1$$

Alternatively, you can use the [symbolic math editor](#) to enter expressions.

Place the argument of a function in parentheses. For example, enter $\text{sqrt}(3x)$ not $\text{sqrt } 3x$, which is interpreted as $(\text{sqrt}(3))x$.

Variable Names

Make sure that the variables you use in responses are exactly the same as displayed in the question.

Note: The grading system is case sensitive with respect to variable names.

If the correct answer is:

$$(t+1)^2$$

then the response

$$T^2 + 2T + 1$$

is graded wrong, but

$$t^2 + 2t + 1$$

is correct.

Beware of case inconsistencies, like x and X or v and V . Make sure that your variables match the case of the variables in questions.

Operator and Function Syntax

For:

- Multiplication, use an asterisk "*". Alternatively, simply write:
 - Two letters with a space (for example, $x y$)
 - A letter and a number with or without a space (for example, $2x$ or $2 x$). Note that two letters without a space represents a single variable name.
 - For **Maple Syntax** questions, you must include an asterisk *, for example $2*x$ and not $2x$, $x*y$ and not xy , or $x*y$ and not $x y$, which will be marked as incorrect.
- Exponentiation, use the caret "^".
- Euler's Constant, 2.718..., use the letter **e**. (The exponential function is e^x .) For **Maple Syntax** questions, use the **exp** function: **exp(1)**.
- Scientific notation, use the upper case letter **E**. (For example, 0.078 is 7.8E-2.)
- The trigonometric constant, 3.141..., use **pi**. For **Maple Syntax** questions, use **Pi**.
- Common mathematical functions, use the standard abbreviated names (for example, sin, cos, and tan).
- The arguments of trigonometric functions, remember they are measured in radians.
- The square root function, use **sqrt(x)**. (Alternatively, use $x^{(1/2)}$ or $x^{0.5}$.)
- The inverse trigonometric functions, use the standard abbreviated names (arcsin(x), arccos(x), and arctan(x)).

For more information, see the [Mathematical Functions and Operations](#) table. For a complete list of Maple functions and expressions, refer to Maple documentation.

Maple Semicolon Usage

As general rule, do not use a trailing semicolon in a response with a Maple command, unless otherwise instructed in an assignment.

Choosing a Math Entry Mode

When working on assignments in the system, you have a choice of two modes for entering answers to math questions: **Text Mode** and **Symbol Mode**.



Equation Editor Modes: You have a choice of two modes for entering answers to math questions:

Text Mode: In text mode, "x squared divided by y" looks like this:

$$(x^2) / y$$

- ◆ Equations are typed in from the keyboard
- ◆ Text mode is quick and easy to use in any browser

Symbol Mode: In symbol mode, "x squared divided by y" looks like this:

$$\frac{x^2}{y}$$

- ◆ You need to download a tool to enter equations
- ◆ This mode is optimized for Internet Explorer (version 5.0 and later) on Windows and may not work well in other browsers.

Change Equation Editor Mode:

- Symbol Mode $\frac{x^2}{y}$
- Text Mode $(x^2) / y$

Note: Your change will take effect with the next question you view.

- The system default mode is [Text Mode](#), which operates using syntax similar to a graphing calculator, combined with a Preview option, which allows you to see what your expression looks like when presented as typeset mathematics.
- The alternative is [Symbol Mode](#), in which you enter formulas in an editing window, pick algebraic symbols and operators from a palette, and see your expressions appear in standard mathematical layout as you type.

Toggle Modes While in a Question

Important: If you change Math Entry Modes using this dialog box while you are responding to a question, your change takes effect **after you move to the next question** in your assignment. If you want to work with the current question using the alternate math entry mode, use Change Math Entry Mode to select the preferred style of math entry.

Return to your question, and use the system's Next and Back buttons to scroll forward and then back to your question. This forces the system to reload the question using your preferred style of entry.

Remembering Responses between Questions

The system allows you to toggle Math Entry Modes as often as you want, depending on the requirements of the question and your personal preferences. Each time you change the style of math entry, the system remembers your responses on previous questions, and automatically translates them for you. If you move to a previous question (where you have already entered an answer), your response is displayed in the current editor mode.

Conversions from Text to Symbol and Symbol to Text

You might notice that expressions converted by the system from Symbol Mode to Text Mode appear to have numerous parentheses inserted. This is normal, and is caused by the very explicit method of conversion from symbolic syntax to text that is required to ensure your symbolic expressions are accurately translated. It does not affect the way the mathematics in your answer is interpreted by the system, or the correctness of your responses when graded.

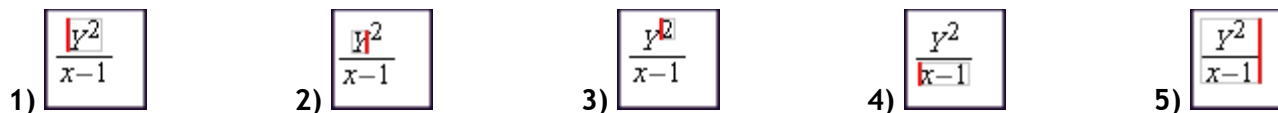
Entering and Editing Formulas in Symbol Mode

Navigating Templates

To edit a formula, use the **left**, **right**, **up**, and **down** arrow keys to navigate the placeholders. The following figures show navigation through a formula.

Example

- To edit the exponent, you move the cursor to the right as in pictures (1)-(3).
- Pressing the **down** arrow puts you on the bottom of the fraction, as in picture (4).
- Using the **right** arrow key repeatedly puts you all the way to the right, allowing you to add another term to the equation, as in the last picture (5).



Cursor Movement Behavior Summarized

- Use the mouse or the arrow keys to move the cursor.
- The **left** and **right** arrows move the cursor between placeholders. When you reach the end of a placeholder, the cursor automatically moves to the next placeholder.
- The **up** and **down** arrows move the cursor vertically.
- Characters are automatically grouped together as you enter them. When the cursor is on a group, an underline appears beneath the whole group. Use the **space bar** to separate characters you do not want grouped together.
- You can use keyboard shortcuts for entering expressions. See [Keyboard Shortcut Keys](#).

Entering Expressions from Palettes

These operations are available only in [Symbol Mode Math entry](#).

- [Basic Appearance](#)
- [Example Symbol Palettes and Function Templates](#)

Basic Appearance

The basic formula entry cell for Symbol Mode resembles the following when it appears in a question.

Question 14: (1 point)

What is the $\int \sin(x) \, dx$

Equation Editor [Help](#)

$-\cos(x)$

a b $\sin(a)$ ∞ α π

$\sin(a)$ $\cos(a)$ $\tan(a)$

$\sec(a)$ $\csc(a)$ $\cot(a)$

$\sin^{-1}(a)$ $\cos^{-1}(a)$ $\tan^{-1}(a)$

This question accepts numbers or formulas.

Plot | [Help](#) | [Change Math Entry Mode](#)

Math expressions and equations are created from palettes.

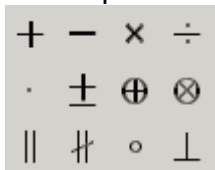
1. To display palettes, right-click in the Equation Editor.
2. Highlight and click a symbol. The symbol is displayed in the Equation Editor.
3. If necessary, use the arrow keys to move between placeholders. For more information, see Entering & Editing Formulas in Symbol Mode.

Example Math Function and Symbol Palettes and Templates

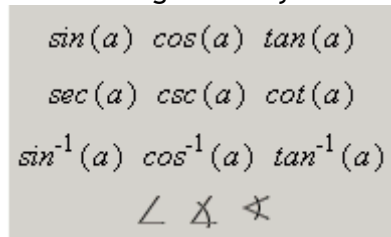
Depending on the questions your instructor has chosen, various math function templates can appear in your formula toolbar.

Examples:

Math Operators



Trigonometry



Calculus

$$\lim_{x \rightarrow a} \quad \frac{d}{dx} \quad \frac{\partial}{\partial x}$$

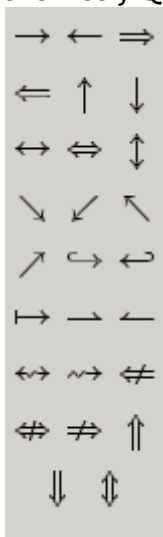
$$\int f \, dx \quad \int_a^b f \, dx \quad \sum_{i=k}^n f$$

$$\sum_{i=k}^n f \quad \prod_{i=k}^n f \quad \prod_{i=k}^n f$$

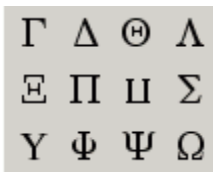
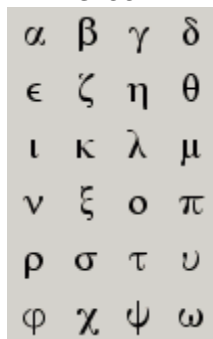
$$\nabla \cdot x \quad \nabla x \quad \nabla \times x$$

$$\phi \quad d \quad \partial \quad \infty$$

Arrows (Chemistry Questions)



Greek



Expressions

$$a_b \quad a^b \quad a_b^c$$

$$\frac{a}{b} \quad \frac{b}{a} \quad \frac{c}{\frac{a}{b}}$$

$$\frac{a}{b} \quad \sqrt{a} \quad \sqrt[n]{a}$$

Entering Math Expressions

There are two ways to enter symbolic or numeric math expressions as part of your responses to questions.

- The system default mode is [Text Mode](#), in which you enter symbolic or numeric math expressions in a simple keyboard notation, much like a graphing calculator.
- You can also use the [Symbol Mode](#), which allows you to enter formulas in an editing window, pick algebraic symbols and operators from a palette, and see your expressions appear in standard mathematical layout as you type.

For a tutorial on math syntax, see [Basic Math Syntax in the System](#).

Note: Some question modes involving math expressions in answers do not offer you the option of Symbol Mode (for example, numeric or formula questions requiring you to include a physical dimension along with a number). For these questions you must enter your response in Text Mode, although you can use the Preview option to see how the system interprets your typed entry (inspecting it for misplaced parentheses and other unintended keystrokes).

Equivalent Responses

By default, the system recognizes equivalent algebraic, numeric, equation, and unit expressions in student responses. This behavior is controlled by your instructor in the event that the learning objective of a particular question is for *you* to demonstrate an understanding of the equivalent expression.

Examples of Equivalent Responses

Algebraic Equivalence

For the question $(t+1)^2$ a response of $(t+1)^2$ or $(t^2 + 2t + 1)$ is graded correct.

Equation Equivalence

$x^2 + 1 = y$ is equivalent to $y-1 = x^2$

Numeric Equivalence

$1/2$ is equivalent to $3/6$ is equivalent to 0.5 or $5E-1$

Unit Equivalence

10000 cm^2 is equivalent to 1 m^2

Important: Read your question instructions carefully and be sure to enter an appropriate response. For instance, if the question asks you to reduce an algebraic expression, it would be inappropriate (and graded wrong) to enter the source expression.

Math Help for Students

- [Basic Math Syntax in the System](#)
- [Entering Math Expressions](#)
- [Equivalent Responses](#)
- [Math Functions and Operators](#)
- [Physical Unit Dimensions](#) supported by this system
- [Text Mode](#) math entry
- [Symbol Mode](#) math entry

Mathematical Functions and Operations

- **Yellow** shading in the following table indicates exclusive Maple™ notation. For a complete list of Maple functions, refer to Maple documentation.
- **Gray** shading indicates exclusive Maple T.A. notation.
- No shading indicates functions and numbers that can be used for both Maple T.A. and Maple questions.

	Arithmetic		Numbers and Constants
+	Addition	e	2.71828...
-	Subtraction	pi	3.14159...
*	Multiplication	2.9E8	Scientific notation: 290,000,000

/	Division	exp(1)	2.71828...
^	Exponential	Pi	3.14159...
		I	sqrt(-1)
Trigonometric Functions		Functions	
sin	Sine	sqrt	Square Root
cos	Cosine	log	Logarithm base 10
tan	Tangent	ln	Natural Logarithm
arcsin	Inverse Sine	abs	Absolute Value Function
arccos	Inverse Cosine		
arctan	Inverse Tangent	log10	Logarithm base 10
sec	Secant	Int	Integral
csc	Cosecant	Diff	Differential equation
cot	Cotangent	Limit	Limit
arcsec	Inverse secant	exp	Exponential Function Calculates the value of e to power of x, where e is the base of the natural logarithm, 2.718281828...
arccsc	Inverse cosecant		
arccot	Inverse cotangent		
Hyperbolic and Inverse Hyperbolic Functions			
hypsin	hyperbolic sine	archypsin	Inverse hyperbolic sine
hypcos	hyperbolic cosine	archypcos	Inverse hyperbolic cosine
hypTan	hyperbolic tangent	archypTan	Inverse hyperbolic tangent
hypsec	hyperbolic secant	archypsec	Inverse hyperbolic secant
hypcsc	hyperbolic cosecant	archypcsc	Inverse hyperbolic cosecant
hypcot	hyperbolic cotangent	archypcot	Inverse hyperbolic cotangent
sinh	hyperbolic sine	arcsinh	Inverse hyperbolic sine
cosh	hyperbolic cosine	arccosh	Inverse hyperbolic cosine
tanh	hyperbolic tangent	arctanh	Inverse hyperbolic tangent
sech	hyperbolic secant	arcsech	Inverse hyperbolic secant
csch	hyperbolic cosecant	archcsch	Inverse hyperbolic cosecant
coth	hyperbolic cotangent	arcoth	Inverse hyperbolic cotangent

Default Table of Physical Unit Equivalents

This is a list of default unit equivalents recognized by the system. Create or use any numeric with units question.

In your question, click the [units] link to open a page that shows the system default equivalent units.

Important: Read the instructions in your question carefully. The questions your instructor uses might specify a non-standard, custom table of unit equivalents that would override the default equivalents listed here. If there is no reference to a custom table of equivalent units, then you can assume that these default units are recognized for your question.

The first column of the following table displays all units that are recognized by the system. You can use either the units themselves, or combinations of these units, for example kJ/mol, kg*m², or m/s/s. The system accepts equivalent answers with different units as long as both units are accepted in the system. That is, if the answer is 120 cm, then 1.2 m or 1200 mm will also be accepted as correct.

Unit	Definition	Name
Base Units		
m		meter
s		second
kg		kilogram
A		amp
K		kelvin

Derived Units		
ng	10^{-9} g	nanogram
ug	10^{-6} g	microgram
mg	10^{-3} g	milligram
g	0.001kg	gram
Mg	10^6 g	megagram
lb	453.59237 g	pounds (Avoirdupois)
lbs	lb	pounds (Avoirdupois)
oz	(1/16)lb	ounces (Avoirdupois)
deg	$\pi/180$	degree
degree	$\pi/180$	degree
degrees	$\pi/180$	degree
rad	1	radian
radian	1	radian
radians	1	radian
nm	10^{-9} m	nanometer
um	10^{-6} m	micrometer
mm	10^{-3} m	millimeter
km	10^3 m	kilometer
Mm	10^6 m	megameter
meter	m	meter
meters	m	meter
cm	0.01 m	centimeter
centimeter	cm	centimeter
centimeters	cm	centimeter
ft	$m \cdot 0.3048$	foot
foot	ft	foot

feet	ft	foot
in	(1/12)ft	inch
inch	in	inch
inches	in	inch
yd	3feet	yard
yard	yd	yard
yards	yd	yard
mi	5280 feet	miles (statute)
mile	mi	miles (statute)
miles	mi	miles (statute)
L	m ³ /1000	liter
nL	10 ⁻⁹ L	nanoliter
uL	10 ⁻⁶ L	microliter
mL	10 ⁻³ L	milliliter
kL	10 ³ L	kiloliter
ML	10 ⁶ L	megaliter
liter	L	liter
liters	L	liter
sec	s	second
second	s	second
seconds	s	second
min	60s	minute
minute	min	minute
minutes	min	minute
h	60min	hour
hr	h	hour
hour	h	hour
hours	h	hour

ns	10^{-9} s	nanosecond
us	10^{-6} s	microsecond
ms	10^{-3} s	millisecond
ks	10^3 s	kilosecond
Ms	10^6 s	megasecond
N	kg m/s ²	newton
nN	10^{-9} N	nanonewton
uN	10^{-6} N	micronewton
mN	10^{-3} N	millinewton
kN	10^3 N	kilonewton
MN	10^6 N	meganewton
J	N m	joule
nJ	10^{-9} J	nanojoule
uJ	10^{-6} J	microjoule
mJ	10^{-3} J	millijoule
kJ	10^3 J	kilojoule
MJ	10^6 J	megajoule
Pa	N/m ²	pascal
nPa	10^{-9} Pa	nanopascal
uPa	10^{-6} Pa	micropascal
mPa	10^{-3} Pa	millipascal
kPa	10^3 Pa	kilopascal
MPa	10^6 Pa	megapascal
W	J/s	watt
nW	10^{-9} W	nanowatt
uW	10^{-6} W	microwatt
mW	10^{-3} W	milliwatt

nohm	10^{-9} ohm	nanoohm
uohm	10^{-6} ohm	microohm
mohm	10^{-3} ohm	milliohm
kohm	10^3 ohm	kilohm
Mohm	10^6 ohm	megaohm
ohms	ohm	ohm
S	<i>AV</i>	siemens
nS	10^{-9} S	nanosiemens
uS	10^{-6} S	microsiemens
mS	10^{-3} S	millisiemens
kS	10^3 S	kilosiemens
MS	10^6 S	megasiemens
F	<i>CV</i>	farad
nF	10^{-9} F	nanofarad
uF	10^{-6} F	microfarad
mF	10^{-3} F	millifarad
kF	10^3 F	kilofarad
MF	10^6 F	megafarad
Wb	<i>V s</i>	weber
nWb	10^{-9} Wb	nanoweber
uWb	10^{-6} Wb	microweber
mWb	10^{-3} Wb	milliweber
kWb	10^3 Wb	kiloweber
MWb	10^6 Wb	megaweber
T	Wb/m^2	tesla
nT	10^{-9} T	nanotesla
uT	10^{-6} T	microtesla

kW	10^3 W	kilowatt
MW	10^6 W	megawatt
Hz	1/s	hertz
nHz	10^{-9} Hz	nanohertz
uHz	10^{-6} Hz	microhertz
mHz	10^{-3} Hz	millihertz
kHz	10^3 Hz	kilohertz
MHz	10^6 Hz	megahertz
C	A s	coulomb
nC	10^{-9} C	nanocoulomb
uC	10^{-6} C	microcoulomb
mC	10^{-3} C	millicoulomb
kC	10^3 C	kilocoulomb
MC	10^6 C	megacoulomb
nA	10^{-9} A	nanoamp
uA	10^{-6} A	microamp
mA	10^{-3} A	milliamp
kA	10^3 A	kiloamp
MA	10^6 A	megaamp
V	J/C	volt
nV	10^{-9} V	nanovolt
uV	10^{-6} V	microvolt
mV	10^{-3} V	millivolt
kV	10^3 V	kilovolt
MV	10^6 V	megavolt
ohm	V/A	ohm
nohm	10^{-9} ohm	nanoohm

H	Wb/A	henry
nH	10^{-9} H	nanohenry
uH	10^{-6} H	microhenry
mH	10^{-3} H	millihenry
kH	10^3 H	kilohenry
MH	10^6 H	megahenry
lm	cd	lumen
lx	cd/m ²	lux
mol	$6.02214199 \times 10^{23}$	mole
mole	$6.02214199 \times 10^{23}$	mole
moles	$6.02214199 \times 10^{23}$	mole
M	mol/L	molar
Molar	mol/L	molar

Other Units		
degC	$(T + 273.15)$ K	degree Celsius
degF	$(5/9)(T - 32) + 273.15$ K	degree Fahrenheit

Plotting

Your instructor can display a plot as part of an assignment question.

Additionally, you may be asked to view a plot of your response or a function derived from your response. For example, the definite integral of your answer.

To view a plot of your response:

Click the Plot link in your assignment question.

If a plot is available for the assignment question, it is displayed in a separate window.

Symbol Mode Shortcut Keys

You can use the following shortcut keys when entering answers. For example, **Ctrl+Space** completes a symbol.



Shortcut Characters	Result
Ctrl+Space	symbol completion
Superscript	^ (caret)
Subscript	_ (underscore key)
Fraction	/
Underscript	Ctrl+'
Overscript	Ctrl+Shift+"
Pre-subscript	Ctrl+_
Scope out	Ctrl+[
Scope in	Ctrl+]
Return cursor to baseline	Ctrl+/
Greek mode (Next Character Entered As Greek)	Ctrl+Shift+G

Class 1, Assignment 1

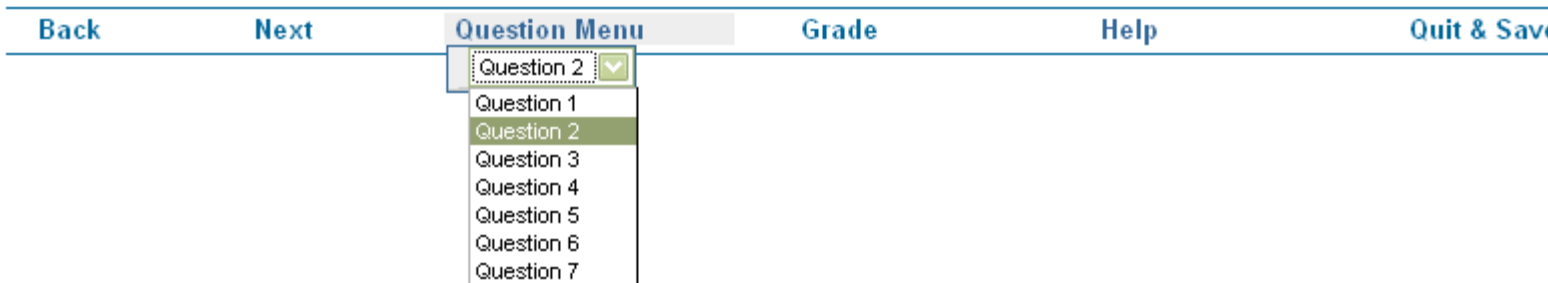
Question 4: (2 points)

Enter the derivative of x^3

[Plot](#) | [Help](#) | [Change Math Entry Mode](#) | [Preview](#)

Assignment Navigation

Assignment Navigation



The Assignment Navigation Bar appears at the top of every page within an assignment.

To move between questions use the Back and Next buttons within the Assignment Navigation Bar.

You can also jump to specific questions you may have skipped by using the Question Menu and selecting a specific question number in the drop-down menu.

To grade your completed [anonymous practice assignment](#), [homework or quiz assignment](#), or [proctored exam](#), click the Grade button.

Note: If you have not answered any of the questions in your assignment, you are warned and have the opportunity to complete them before grading. If any of your answers include math syntax errors or other input not understood by the system, you are also warned and have the opportunity to fix those specific questions.

To grade your [study session](#) or [mastery](#) assignment, click the Grade button after you have completed each individual question. Once you have graded the question you are presented with the next question in the assignment.

To access the Help system, click the Help menu.

To log out of your current assignment, click the **Quit & Save** button.

Resuming Interrupted Assignments

If you quit an assignment prior to completion and grading, the next time you start an assignment you are presented with three choices.

You have an active assignment in the system.

Explanation:

In your previous session, you were working on the "Test" assignment, which was not graded before you logged out.

To continue, you must select one of the following options:

- [Resume my old "Test" assignment.](#)
- [Grade my old "Test" assignment.](#)
- [Grade my old "Test" assignment and continue to my new "Assignment 2" assignment.](#)

1. Resuming an Interrupted Assignment

To resume an old assignment:

1. Click the radio button beside Resume my old "Assignment X" assignment where Assignment X is the name of the assignment.
2. On the message dialog that is displayed, click OK.
3. You can resume your assignment from where it was interrupted. All of your previous responses are retained.

2. Grading an Interrupted Assignment

To grade an old assignment:

1. Click the radio button beside Grade my old "Assignment X" assignment where Assignment X is the name of the assignment.
2. On the message dialog that is displayed, click OK.
3. You can grade your assignment with all of your previous responses retained. Note that your assignment is graded even if it is not complete.
4. Your results for the assignment are displayed.

3. Grading an Interrupted Assignment to Start a New Assignment

To grade an old assignment and start a new assignment:

1. Click the radio button beside Grade my old "Assignment X" assignment and continue to my new "Assignment Y" assignment where Assignment X is the name of the old assignment and Assignment Y is the name of the new assignment.
2. You must grade Assignment X before you can start Assignment Y. On the message dialog that is displayed, click OK.
Note that your assignment is graded even if it is not complete.
3. Assignment X is graded and the first question of Assignment Y is displayed. You can now work on Assignment Y.
Note that Assignment X is graded invisibly. To view your results, open the Gradebook.

Note: For **Proctored Tests** and **Mastery Tests** you only have the options to *"Resume my old assignment"* or *"Grade my old assignment"*.

Policies

Math 135

Maplesoft
 Kim Connors

Select the link for an assignment to begin:

Assignment Name	Points	Type	Availability	
Demonstration of the Maple-graded Question Type	25.0	Practice	Unlimited	
Assignment 2	3.0	Homework/Quiz	Unlimited	policies
Proctor Test	7.0	Proctored	Unlimited	
Demonstration of Question Types	63.0	Practice	Unlimited	
Demonstration Assignment	4.0	Homework/Quiz	Unlimited	
Assignment 3	4.0	Homework/Quiz	Unlimited	

The policies link in the [Class Homepage](#) list of assignments indicates the conditions under which the assignment or test may be taken. For example, a final exam may be taken only after specific assignments or tests have been completed.

Click the link to view polices associated with the assignment name:



Instructor's policies:

Time Limit: 30 minutes

Passing Score: 2/3.0

A student may only take this test if he/she:
 has *not* made one or more attempts at [Assignment 2](#)

[View Past Results](#)
Policies

Math 135

Maplesoft
 Kim Connors

Select the link for an assignment to begin:

Assignment Name	Points	Type	Availability	
Demonstration of the Maple-graded Question Type	25.0	Practice	Unlimited	
Assignment 2	3.0	Homework/Quiz	Unlimited	policies
Proctor Test	7.0	Proctored	Unlimited	
Demonstration of Question Types	63.0	Practice	Unlimited	
Demonstration Assignment	4.0	Homework/Quiz	Unlimited	
Assignment 3	4.0	Homework/Quiz	Unlimited	

The policies link in the [Class Homepage](#) list of assignments indicates the conditions under which the assignment or test may be taken. For example, a final exam may be taken only after specific assignments or tests have been completed.

Click the link to view polices associated with the assignment name:



Instructor's policies:

Time Limit: 30 minutes

Passing Score: 2/3.0

A student may only take this test if he/she:
 has *not* made one or more attempts at [Assignment 2](#)

Viewing Past Assignments

To view the assignment that you completed:

1. In the [Class Homepage](#), click Gradebook and select View Past Results.

Gradebook

Help

Logout

[View Past Results](#)

Math 135

Maplesoft

Kim Connors (kconnors@maplesoft.com)

Select the link for an assignment to begin:

Assignment Name	Points	Type	Availability	
Demonstration of the Maple-graded Question Type	25.0	Practice	Unlimited	
Assignment 2	3.0	Homework/Quiz	Unlimited	policies
Proctor Test	7.0	Proctored	Unlimited	
Demonstration of Question Types	63.0	Practice	Unlimited	
Demonstration Assignment	4.0	Homework/Quiz	Unlimited	
Assignment 3	4.0	Homework/Quiz	Unlimited	

2. Select the assignment(s) for which you want to see your results and click Submit. Hold down the Ctrl key (Command, on Macintosh) to select more than one assignment.

Gradebook

Help

Logout

▼ [Search Panel](#)

Assignment Name	Assignment Type	Show Results	Completed/In Progress	Date Range
MC assignment - Homework/Quiz	Proctored	<input checked="" type="radio"/> Best	<input checked="" type="radio"/> Completed	Date from: <input type="text"/>
Assignment 2 - Homework/Quiz	Homework/Quiz	<input type="radio"/> Average	<input type="radio"/> In Progress	<input type="text"/> clear
mastery test - Mastery	Mastery	<input type="radio"/> Most recent	<input type="radio"/> To Be Reviewed	Date to: <input type="text"/>
essays - Homework/Quiz	External	<input type="radio"/> All		<input type="text"/> clear
Proctor Test - Proctored				

Select: [All](#) | [None](#)

Submit

3. Your individual statistics on the selected assignments are displayed.
4. Depending on how the questions were authored and the way that your instructor constructed your assignment, you may be able to view the detailed feedback with the individual questions. Click the Details button.

Assignment 3	
Best score	4
Avg score	4
# Attempts	1
Total Points Available	4

Assignment Name	Score	Start	End	Duration
Assignment 3	Details	4	4/26/07 1:24 PM	4/26/07 1:31 PM 7 min

Assignment 3	
Best score	4
Avg score	4
# Attempts	1
Total Points Available	4

Assignment Name	Score	Start	End	Duration
Assignment 3	Details	4	4/26/07 1:24 PM	4/26/07 1:31 PM 7 min

- Each question is displayed, along with your response, your grade, and whether or not you answered correctly. Instructor comments, if there are any, are also displayed.

Assignment detail for Bo Connors in Assignment 3:





Bo Connors

Login: bconnors

Assignments completed: 4

Assignments active: 0

Question

- | | | Grade |
|---|--|-------|
| 1 | Differentiate $\sin(x) * x$

CORRECT
Your Answer: $\cos(x)*x+\sin(x)$
Comment: No feedback provided with this question
Instructors Comment: | 1.0 |
| 2 | Solve for x in the following equation: $3x+6=12$

CORRECT
Your Answer: 2
Comment: If you answered 6, you get part marks. You should have subtracted 6 from both sides, instead of adding.
Instructors Comment: | 1.0 |
| 3 | <div style="background-color: #cccccc; padding: 5px; text-align: center;">Your response</div>
Who introduced the Arabic number system to Europe? Leonardo Devinci (100%)

CORRECT
Instructors Comment: | 1.0 |
| 4 | <div style="background-color: #cccccc; padding: 5px; text-align: center;">Your response</div>
Round 2.76789m to three significant digits. 2.77 m (100%)

CORRECT
Instructors Comment: | 1.0 |

Note: Instructors control how assignments are presented to students in their class. Thus, the amount of feedback you receive for assignments may vary based on how your instructors created them. If you have questions about the differences between one assignment and another, speak to your instructor or teaching assistant.