

Information for Online Homework Math10550 Fall 2024 (hyperlinks are in blue)

Homework will be assigned and collected electronically through Cengage/Webassign. To access and your homework, go to the menu bar in Canvas and click on **Modules**. Click on the homework you wish to work on. A complete list of homeworks along with availability and due dates is given at the end of this handout.

Before you start your first homework, you may be asked to create a Cengage Account (if you have not used Cengage in other courses). Details of how to register/create an account are given here:

<https://startstrong.cengage.com/webassign-canvas-ia-yes/>.

If asked, please use your Notre Dame netid as your username and enter your name as it appears in Canvas.

Payment For Online Homework Our homework is set up through the First Day Access Program and a cost of \$50 is automatically billed to your student account through the registrar's office. If you have funding for books etc., the registrar's office should automatically apply it to the cost of your online homework. If you drop the course (before the course discontinuance date (Nov. 01), they will be refunded for the materials but it may take a few days for the credit to show on you account.

Opting out of the First Day Access Program, what's involved?: In general, there is no benefit to opting out of the First Day Access Program if Calculus is the only course you are taking that uses Cengage and you only intend to take Calculus I or Calculus I and II. If Calculus is your only course using Cengage and you intend to take the full calculus sequence, Calculus I-III (Engineering and Math majors are required to do this), then the benefits to opting out are marginal at best. To see more information on your options (and the pros and cons of opting out) check our [Book/Access Code Information](#) page on our website before doing so.

If you do not wish to participate in the First Day Access Program, you will need to opt out of the program in order to prevent the billing to your account. The deadline for opting out of the program is Sept. 03. To opt out of the First Day Access Program, you need to notify the bookstore by sending an e-mail to this address SM8442@bncollege.com before Sept. 03. If you do this you will lose access to your homework after the grace period (roughly about 10 days from the start of the course) ends, and will have to purchase online access from Cengage immediately (out of pocket).

If you do opt out of the First Day Access Program, you will need to buy an access code for the book and homework. In that case, I suggest you purchase the Cengage Unlimited \$129.99 4 month option. This option will allow access to online homework and e-book for all three semesters (Calc 1-3). It will also allow access a precalculus book for review and all cengage materials for this semester. If you are purchasing Cengage Unlimited for another class, you do not need to purchase it for this class. For more details click on this link: <https://www.webassign.com/instructors/purchasing/cengage-unlimited/>.

If you opt out of the First Day Access Program and purchase Cengage Unlimited, you will need to remember to opt out again in future courses using Stewart (in particular Calculus II and III).

Getting Started Your Homework and e-book(scroll to end) appear under **Modules** in Canvas. Click on the **Modules** icon in the menu bar and then click on your homework or the e-book to open it. If you click on a homework in Canvas, it should take you straight to your homework (after you have registered with Cengage). If for some reason, you do not see your course or homework in Cengage, it may help to clear the cache of your browser. Instructions on getting started are given on the Cengage website under the link

<https://help.cengage.com/student/webassign/index.html>.

Your Home Page on Cengage also offers a link to the e-book.

Homework Policy: The homework for each class is available at 2am on the day of the class prior to

the one in which the relevant material is scheduled to be covered. **It is due at the end of the next class day (in fact 2a.m. the following morning).** A complete list of due dates is attached.

Late Homework will not be accepted. In the case of extenuating circumstances, you should consult your instructor. A prearranged trip off campus, for any event will not be considered as extenuating circumstances. Your Homework will count for 50 points out of a total of 600 points for the course, approximately 8.3% of your final grade.

Extras: In addition to homework assignments, there is an assignment which is not for credit (see the attached homework schedule).

- The “Entering math answers in WebAssign” assignment should be completed by all students who have not used WebAssign before. (Please note there is one question on graphing in this assignment where the correct answer will be marked incorrect - apologies! we have no power to edit this assignment, it was produced by Webassign).

Your assignments classified as **Homework** are labelled by section number and topic. These homeworks will be used to calculate your final grades and will contribute to your scores in the gradebook. At the end of the semester, the lowest three homework scores will be dropped.

Homeworks may contain a few review questions from the relevant precalculus topics and some old exam questions. To access the relevant section of the book for the precalculus questions, click on **read it**. Please review the solutions to the old exam questions after the due date and try to develop your skills in presenting your answer in writing using logical steps and reasoning. This is an important skill for problem solving and will be tested in the partial credit portion of your exams. It is important to develop this skill for future courses, research requiring problem solving and especially for writing up future research.

For each homework question part (except multiple choice), you are allowed 5 submissions for the answer. You can submit question parts individually. When you wish to make a submission, click **Submit Answers**. You do not need to complete your homework or a question in one sitting. You may click **Save Work** if you wish to return to your work later.

The first chart below shows the proper syntax for entering answers and the next chart shows the most common errors when entering answers. There is also a menu called “Calcpad” available when working on a problem which can be opened and used to help you enter your answers.

This question requires that you enter your response in symbolic format.

To do this, type your answer into the answer box using standard calculator notation. You will be given credit for any formula that is evaluated to be equivalent to the answer formula.

For example, $4x+12$ would be equivalent to $(x+3)^4$.

Use pi to represent the symbol π , 3.14 is a numerical approximation of the symbol π and these are not equivalent.

Do not worry about italics. For example, if a variable g is used in the question, just type g .

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Available operators	Example	Available operators	Example
+ for addition	$x+1$	sin, cos, tan, sec, csc, cot, asin, acos, atan functions (angle x expressed in radians)	$\sin(2^*x)$
- for subtraction or the negative sign	$x-1$, or $-x$	sqrt() for square root of a number	$\text{sqrt}(x/5)$
* for multiplication	4^*x	pi for 3.14159....	2^*pi^*x
/ for division	$x/4$	e for scientific notation	$1\text{e}3 = 1000$
** or ^ for exponential	$x^{**}3$ or x^3	ln() for natural log	$\ln(x)$
() where necessary to group terms	$4/(x+1)$, or $3^*(x+1)$	exp() for "e to the power of"	$\text{exp}(x) = e^x$
abs() to take the absolute value of a variable or expression.	$\text{abs}(-5) = 5$		

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Question Mode	Problem	Incorrect Notation	Correct Notation
Any	Incorrect grouping operator.	$4\{x+3\}$	$4(x+3)$
Any	Missing operand.	50^*	50^*3
Any	Too many consecutive operators.	$x+ +++2$	$x+2$
Any	Unrecognized symbol.	$\$4.00$ $4\&6$	4.00 $4+6$
Numerical	Misspelled unit.	3456 met/sec	3456 m/s
Numerical	Response cannot contain variables.	2^*x+3	2^*10+3
Numerical	Response cannot use implicit multiplication.	$3(14)$	3^*14
Symbolic or Algebraic	Comma in number.	$5,000$	5000

HELP : The [MATH Help Room](#) is located in the basement of Hayes-Healy. The hours are listed on the help page (the above link). The help room is staffed by graduate tutors (including your tutors for the tutorials for 10550) and you can walk in and get help on homework, old exam questions or difficulties understanding the material at any of the times listed.

Help is also available in the form of **instructor office hours and from First Year of Studies**. More details on help available appear in the [Help Available](#) section on our website. Your instructor will also let you know their office hours as soon as they have sorted out their schedule.

Cengage offers technical support and tutoring facilities. For **technical support**, click on the students support button at the upper right hand corner of the Webassign home page.

For technical difficulties, Cengage student support personnel will hold office hours in the Fall semester. See the [Help Page](#) on our website for details.

For **homework help** the Enhanced Webassign system gives a number of help options with each question.

- **Read it** : Brings you to the relevant section of the book.(This will bring you to the relevant section of the precalculus book for review questions on precalculus).
- **Watch it** : Shows a video tutorial where someone works through a similar question.
- **Master it** : Helps you through a similar question in steps outlining the ideas involves in each

step.

- **Chat about it** : Offers help through live online tutorials.

Homework Schedule Math 10550 Fall 2024

Note all deadlines are at 2:00 A.M., meaning that homework due on thurs. at 2:00 a.m. is essentially due on wed. night with a two hour extension.

Class Date	Topic covered in class	HW Appears	HW Due
	Entering Math Answers in Webassign (not for credit)	Tue. 08/27	Mon. 09/02 2:00 a.m.
08/28 Wed.	1.1-1.3. Review of Functions	Tue. 08/27	Mon. 09/02 2:00 a.m.
08/30 Fri.	1.4. Ave., Tangent and Velocity	Wed. 08/28	Tue. 09/03 2:00 a.m.
09/02 Mon.	1.5. Limit of a Function	Fri. 08/30	Thurs. 09/05 2:00 a.m.
09/04 Wed.	1.6. Calculating limits using the limit laws	Mon. 09/02	Mon. 09/09 2:00 a.m.
09/06 Fri.	1.8. Continuity	Wed. 09/04	Tue. 09/10 2:00 a.m.
09/09 Mon.	2.1. Derivatives and rates of change	Fri. 09/06	Thurs. 09/12 2:00 a.m.
09/11 Wed.	2.2. The derivative as a function	Mon. 09/09	Mon. 09/16 2:00 a.m.
09/16 Mon.	2.3. Differentiation formulas	Wed. 09/11	Thur. 09/19 2:00 a.m.
09/18 Wed.	2.4. Derivatives of trigonometric functions	Mon. 09/16	Mon. 09/23 2:00 a.m.
09/20 Fri.	2.5. The Chain Rule	Wed. 09/18	Tue. 09/24 2:00 a.m.
09/23 Mon.	2.6. Implicit differentiation	Fri. 09/20	Fri. 09/27 2:00 a.m.
09/25 Wed.	Review for Exam 1		
09/27 Fri.	Return of Exam 1		
09/30 Mon.	2.7. Rate of change in the natural and social sciences	Fri. 09/27	Thur. 10/03 2:00 a.m.
10/02 Wed.	2.8. Related Rates	Mon. 09/30	Mon. 10/07 2:00 a.m.
10/04 Fri.	2.9. Linear approximation and differentials	Wed. 10/02	Tue. 10/08 2:00 a.m.
10/07 Mon.	3.1. Maximum and minimum values	Fri. 10/04	Thur. 10/10 2:00 a.m.
10/09 Wed.	3.2. The Mean Value Theorem	Mon. 10/07	Mon. 10/14 2:00 a.m.
10/11-14 F/M	3.3. How derivatives affect the shape of a graph	Wed. 10/09	Fri. 10/18 2:00 a.m.
10/16 Wed.	Review for Exam 2		
10/18 Fri.	Return of Exam 2		
	Fall Break		
10/28 Mon.	3.4. Limits at infinity; horizontal asymptotes	Fri. 10/18	Thurs. 10/31 2:00 a.m.
10/30 Wed.	3.5. Summary of curve sketching	Mon. 10/28	Mon. 11/04 2:00 a.m.
11/01 Fri.	3.7. Optimization problems	Wed. 10/30	Tue. 11/05 2:00 a.m.
11/04 Mon.	3.8. Newton's Method	Fri. 11/01	Thurs. 11/07 2:00 a.m.
11/06 Wed.	3.9. Antiderivatives	Mon. 11/04	Mon. 11/11 2:00 a.m.
11/08 Fri.	4.1. Areas and distances	Wed. 11/06	Tue. 11/12 2:00 a.m.
11/11 Mon.	4.2. The definite integral	Fri. 11/08	Thur. 11/14 2:00 a.m.
11/13 Wed.	4.3. The Fundamental Theorem of Calculus	Mon. 11/11	Mon. 11/18 2:00 a.m.
11/15 Fri.	4.4. Indefinite integrals and the Net Change Theorem	Wed. 11/13	Tue. 11/19 2:00 a.m.
11/18 Mon.	4.5. The Substitution Rule	Fri. 11/15	Fri. 11/22 2:00 a.m.
11/20 Wed.	Review for Exam 3		
11/22 Fri.	Return of Exam 3		
11/25 Mon.	5.1. Area between curves	Mon. 11/18	Mon. 12/02 2:00 a.m.
11/27-29 W/F	Thanksgiving Break		
12/02 Mon.	5.2. Volumes	Mon. 11/25	Thur. 12/05 2:00 a.m.
12/04 Wed.	5.3. Volumes by cylindrical shells	Mon. 12/02	Mon. 12/09 2:00 a.m.
12/06 Fri.	5.4. Work	Wed. 12/04	Tue. 12/10 2:00 a.m.
12/09 Mon.	5.5. Average value of a function	Fri. 12/06	Thur. 12/12 2:00 a.m.
12/11 Wed.	Review for Final		