

Math 176: PRECALCULUS
Fall 2016 Syllabus
GROSSMONT COLLEGE

perseverance *noun*

1. steadfastness in doing something despite difficulty or delay in achieving success.

“The three great essentials to achieve anything worthwhile are, first, hard work; second, stick-to-itiveness; third, common sense.” ~Thomas A. Edison

Class Meets: Mon/Tues/Wed/Thurs: 12:30-1:50 pm, Bldg 53, Room 552 (Section #3490, 6 units)

Instructor **Jenny Vanden Eynden** (pronounced vān-dĕn ěn-dĕn)

Contact Info: Email: jenny.vandeneinden@gcccd.edu

Phone/Voice Mail: 619-644-7294

Website: www.grossmont.edu/people/jenny-vanden-eynden

Office Hours: Bldg 70, Room 212 (located on the second floor of the Tech Mall)

Tues, Wed, Thurs: 10:15 – 10:45pm,

Mon, Wed: 2:00 – 3:45pm,

or by **appointment**

Prerequisite: A "C" grade or higher or “Pass” in Math 110 (Intermediate Algebra: 5 units) or equivalent and Math 097 (Geometry) or equivalent is required. (Note: Math 103 is not equivalent to Math 110.) You are responsible for knowing all Intermediate Algebra and basic Geometry topics.

Text: *Precalculus: Mathematics for Calculus*, 7th Edition by James Stewart, Redlin, Watson.

ISBN-10: 1305071751

ISBN-13: 9781305071759

OR *E-book on WebAssign.com*

Class Key: **gcccd 6239 5371**

Required: **A graphing calculator.** We will be using the graphing calculator every day in class!

The math department recommends the TI-84 or TI-84plus. Be aware that there may be portions of exams/quizzes where calculators CAN'T be used.

Some calculators NOT ALLOWED on exams/quizzes: TI-Nspire CX CAS, TI-Nspire CAS with Touchpad, TI-89, TI-92, TI-Voyage200 (or equivalent)

****NOTE:** Calculators can't be shared during exams/quizzes, so please bring your own calculator to every class period**

Overview: This course is the unification of college algebra and analytical trigonometry. Topics include the theory of functions (polynomial, exponential, logarithmic, trigonometric and their inverses), trig graphs, identities and equations, matrices, conic sections, polar graphing, parametric equations, binomial theorem, mathematical induction, sequences and series. Pre-calculus topics will be stressed. This course will satisfy the prerequisite for Math 180 (Calculus I) at Grossmont College. A student can earn a maximum of 6 units when taking MATH 170, 175, and 176. Satisfies General Education for: Grossmont College, CSU. Transfers to: CSU, UC

A Student Who Has Successfully Completed This Course Will Be Able To:

- categorize precalculus problems and use appropriate theorems, formulas, and algorithms to solve them.
- use the appropriate technology to solve problems requiring precalculus.
- formulate, analyze, and differentiate mathematical functions numerically, graphically, and symbolically at the precalculus level and have the ability to transition between these representations.
- communicate the mathematical process and assess the validity of the solution.

Grading:

Your grade for the course is based on:

- Homework & Classwork worth 10%
- Quizzes worth 15%
- 5 Exams (10% each) worth 50%
- Final Exam worth 25%
- TOTAL 100%

For Pass/No Pass option: 70 – 100 % = “Pass”
Below 70% = “No Pass”

The grading scale for this course is:

98 – 100 %	A+
92 – 97 %	A
90 – 91 %	A–
88 – 89 %	B+
82 – 87 %	B
80 – 81 %	B–
78 – 79 %	C+
70 – 77 %	C
60 – 69 %	D
Below 60%	F

You can NOT PASS this class without taking the final exam!

Blackboard: Information for this course, including checking your current grade, take-home quizzes and exam reviews, will be available on Blackboard. <http://gcccd.blackboard.com/>
Your username is your name with a dot separating the first and last name. The password is your 6 digit birthdate. Username: first.last Password: MMDDYY

Homework: Math is a subject learned by *doing* not watching. Therefore *working math problems in and outside class* is very important to YOUR SUCCESS in Math 170. The math problems you do on homework assignments will prepare you for exams and quizzes, so if you are having difficulty with ANY homework assignment, please ASK QUESTIONS, come to my office hours for help or get tutored in the Math Study Center (70-112/113) or in the Tutoring Center (70-202).

We are all here to help you succeed!

- Homework will be assigned daily.
- I expect you to attempt all assigned homework before the next class meeting.
- I will answer your homework questions at the beginning of each class.
- Your lowest homework score will be dropped

YOU CAN CHOOSE HOW YOU DO HOMEWORK:

a. **TEXTBOOK:** Using pencil and paper, turn in homework packet in class on the exam day. **SEE INSTRUCTIONS BELOW.**

OR

b. **ONLINE:** Using WebAssign online homework software, assignments are due on the exam day. **SEE LAST PAGE FOR HOW TO REGISTER IN WEBASSIGN.COM**

TEXTBOOK HOMEWORK:

- Homework will be collected, so use loose-leaf paper NOT your notebook or notes.
 - Start each new section of homework at the TOP of a NEW sheet of paper. LABEL each section clearly. Write the Section number and assigned problems at the TOP of the page (ex. Section 2.1, 1-73 EOO).
 - SHOW ALL WORK. Since all the answers are in the back of the textbook, copying down just the **answers alone will NOT receive credit.** That means: NO WORK = 0 POINTS
 - Work problems in pencil, staple your work, and don't turn in paper with a jagged edge.
 - Your packet of homework will be due on the day of each exam. The packet should contain all sections of homework covered on the exam, in order. For example, on the day of Exam 1, all 7 sections of homework (2.1 thru 2.7) from Chapter 2 are due.
 - I will collect each homework packet **at the beginning of class on EXAM DAY.**
- NO LATE HOMEWORK WILL BE ACCEPTED.**

Quizzes: Weekly quizzes, both announced and unannounced, will be given in this course. Because of this, it is important that you come to class every day, and come to class prepared! **Make-up quizzes will NOT be given.** If you miss class on a quiz day, you can not take the quiz late. However, your *lowest quiz score will be dropped.* No cell-phones, notes or books will be allowed on in-class quizzes.

Exams: There will be **5 in-class exams** and a **cumulative** Final Exam. **No exams will be dropped.** ***Again, NO EXAMS WILL BE DROPPED.*** Tests will include questions over homework assigned in the text, readings and handouts, as well as material presented in class. If you do not take an exam, you will receive a ZERO for it.

Late exams may ONLY be taken by PRIOR ARRANGEMENT or in the case of a DOCUMENTED emergency.

Remember that it is **your responsibility** to contact me (by email, phone, mailbox, or in person) **immediately** if a conflict arises (meaning, I expect to hear from you the day of the missed exam). No cell-phones, notes or books will be allowed on exams.

Final Exam: The final is **MANDATORY** and **CUMULATIVE** and will be given
Monday, December 12, 11:35 AM –1:35 PM, Room 552
You can NOT PASS in this class without taking the final exam!
DON'T MAKE TRAVEL PLANS THAT CONFLICT WITH THIS DATE !!!!!

Attendance: Attendance is expected at each class meeting. Bring your text and calculator to every class. **You can be dropped from the class for having more than 4 unexcused absences.** Late arrival and/or early departure from class may be counted as an absence. Please discuss any anticipated absences with me as soon as possible. In the event of an absence, you are responsible for all material covered in class, turning all assignments in **on time**, any schedule changes or class announcements.

The last day to drop this class with a “W” recorded is **November 10 (Thursday)**. It is YOUR responsibility to drop the class by this date if you choose to do so. After this date, anyone still enrolled in the class will receive a letter grade (or P/NP) at the end of the semester.

Classroom Conduct: Class time is valuable. You are expected to be courteous to each other and to the instructor. You will be asked to leave the class for display of behavior the instructor deems as disruptive to the class environment. **During class, all phones, music players, and other distracting electronic devices must be turned off or put in silent mode AND put away.**

Absolutely NO CELL PHONE USE, WEB SURFING or TEXTING is allowed in class! If you are disruptive in class (after being warned), you could be suspended from the course for up to 2 days. If you use or look at a cellphone, smartphone, iPad, iPod or any other unapproved device during an in-class quiz or exam, you will earn ZERO POINTS on that assessment, which will adversely affect your grade in the course.

At Grossmont College and in this class, we promote acceptance of all people, including those of diverse age, ancestry, color, disability, ethnicity, perspective, national origin, religion, gender, gender identity, sexual orientation, education, or socioeconomic status.

Derogatory comments about another's race, ethnicity, accent, appearance, intelligence, or sexual orientation will not be tolerated on any level.

Please see the Grossmont College Catalog for a full statement of the Student Code of Conduct.

Academic Integrity: **All work** (which includes homework, take-home quizzes, in-class quizzes, and exams) that you complete in this class should be your own. The use of unauthorized materials, communication with other students during an exam, copying solutions from WolframAlpha.com or other sources, attempting to benefit from the work of another student, allowing a student to copy your work and similar behaviors that defeat the intent of an assignment/exam/quiz is unacceptable.

It is the responsibility of each student to understand the actions and behaviors that constitute academic dishonesty, including plagiarism and cheating, within each class as well as other venues on campus. Students are encouraged to ask questions of instructors and are expected to read the college's statement on Academic Fraud (located in the class schedule). Penalties for actions inconsistent with classroom, library and College expectations for academic integrity range from a failing grade on an assignment, quiz, exam, paper, or project (which may lead to a failing grade in the course) to, under certain conditions, suspension, or expulsion from a class, program, or the college. For more information and/or further clarification, please consult with your instructor or contact the Student Affairs Office.

Students w/ Disabilities Students with disabilities who need accommodations in this class are encouraged to notify the instructor and contact Disabled Student Programs and Services (DSP&S) **early in the semester** so that reasonable accommodations may be implemented as soon as possible. Students may contact DSP&S in person in building 60, room 120 or by phone (619) 644-7112 (voice) or (619) 567-7712 or (877) 561-8975 (both Video Phone).
<http://www.grossmont.edu/student-services/offices-and-services/dsps/default.aspx>

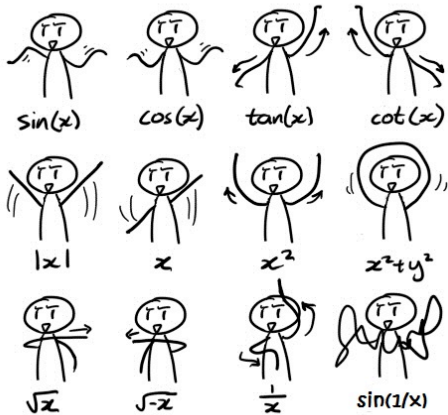
Math Study Center: The Math Study Center (MSC, rooms 70-112 & 70-113) is centrally located on the first floor of the Tech Mall (connected to the LTRC/Library). They provide peer math tutoring on a walk-in basis. The MSC a great place to work on homework, study for a math exam and/or work on schoolwork from another class. Computers are available for educational use. The MSC is open Monday through Friday.

Hours: Monday through Thursday: 8:00am – 9:00pm
Friday: 8:00am – 3:00pm

Call (619) 644-7706 for further information.

Tutoring Center: One-on-one tutoring is available in the Tutoring Center located on the 2nd floor of the Tech Mall in room 70-202. All Grossmont College students may receive free tutoring for many subjects they are enrolled in at Grossmont College. Tutoring is by appointment only. Students are allowed up to 2 hours of tutoring a week per subject, with a maximum of 5 hours per week. Appointments are scheduled in advance and the Tutoring Center is open Monday through Friday. Call (619) 644-7387 for their current hours.

Beautiful Dance Moves



"I've decided to forego trigonometry, and make myself eligible for the NBA draft."

Expectations: Enrolling in a course represents a commitment to attend class and to participate fully in the learning process. I expect you to:

- Turn off your cell phone and any other disruptive devices before coming to class.
- Come to every class meeting on time and prepared.
- Be attentive, take notes, and remain seated until class is over.
- Participate in class—active learners get more out of class time!
- Be respectful of your classmates and myself.
- Do (this means attempt/try/check) all the homework assigned by the next class meeting.
- Ask questions about the material before, during and after class, or during office hours.
- Put in the effort required to succeed in this course!
- Keep a positive attitude and **persevere!**

Important

Dates

September 2: Last day to drop without a “W” (and for refund)
 September 5: Holiday (Labor Day)
 November 10: Last day to drop classes with a “W”
 November 24: Holiday (Thanksgiving)
 December 12: Final Exam, 11:35 am – 1:35 pm, Room 552

*This course adheres to the policies outlined in the Grossmont College Catalog.
 See the Academic Policies stated in the catalog.*

Math 176 Homework for Exam #1

Precalculus: Mathematics for Calculus, James Stuart, Redlin, & Watson, 7th Edition

***Review Problems are not collected. Look them over to see if you need to review the topic further.**

Page	Section	Problems
155	2.1	3, 7, 13, 17, 19, 25, 29, 31, 33, 35, 43, 55, 59, 65, 80, 85, 87
166	2.2	4, 5, 9, 15, 23, 29, 33, 35, 39, 41, 45, 49, 51, 53, 57, 61, 65, 69, 73, 81
178	2.3	7, 9, 11, 15, 17, 21, 31, 43, 47, 49, 55, 57, 61, 67
187	2.4	5, 7, 9, 15, 21, 25, 27, 29, 33, 37
195	2.5	*Review problems: 3-6 all, 7-35 odd
206	2.6	1, 3, 11, 13, 19, 25, 27, 31, 33, 37, 49, 55, 57, 67, 69, 73, 81, 83, 85, 87, 93, 97
216	2.7	1, 9, 13, 17, 21, 27, 31, 33, 41, 49, 55, 57, 59, 63, 77, 79
225	2.8	7, 9, 15, 19, 23, 25, 29, 31, 35, 39, 45, 51, 55, 61, 73, 77, 87, 91, 93, 98

Math 176, Fall 2016
Grossmont College

Vanden Eynden
Section #3490

TENTATIVE SCHEDULE (as of 8/22/16)

Week of:	Monday	Tuesday	Wednesday	Thursday
Week 1 8/22 — 8/25	Introduction	2.1	2.2	2.3
Week 2 8/29 — 9/1	2.4	2.6	2.7	2.8
Week 3 9/5 — 9/8	<i>Labor Day Holiday</i>	3.1 Modeling	<i>Review</i>	Exam 1
Week 4 9/12 — 9/15	3.2	3.3, 3.4	3.4, 3.5	3.6
Week 5 9/19 — 9/22	3.7	4.1, 4.2	4.3, 4.4	4.5
Week 6 9/26 — 9/29	4.6	5.1	<i>Review</i>	Exam 2
Week 7 10/3 — 10/6	5.1, 5.2	5.2	5.3	5.4, 5.5
Week 8 10/10 — 10/13	5.5, 6.1	6.1, 6.2	6.2, 6.3	6.4, 6.5
Week 9 10/17 — 10/20	6.5	6.6	7.1	<i>Review</i>
Week 10 10/24 — 10/27	Exam 3	7.2, 7.3	7.4, 7.5	7.5
Week 11 10/31 — 11/3	8.1	8.2	8.3	8.4
Week 12 11/7 — 11/10	9.1	9.2	<i>Review</i>	Exam 4
Week 13 11/14 — 11/17	10.3 (10.1, 10.2 Review)	10.4	10.5	10.6
Week 14 11/21 — 11/24	10.7	10.8, 10.9	11.1, 11.2	<i>Thanksgiving</i>
Week 15 11/28 — 12/1	11.3, 11.4	12.1	<i>Review</i>	Exam 5
Week 16 12/5 — 12/8	12.2, 12.3	12.5	12.6	Final Review
Week 17 12/12	Final Exam 11:35-1:35pm	<i>No class</i>	<i>No class</i>	<i>No class</i>

Math 176 Final Exam on Monday, December 12, 11:35 AM –1:35 PM, Room 552