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- B.** If one of your classmates made fun of you in the schoolyard, or cheated at a game you were playing together, what would you do? Many people would get angry. Some might even start yelling, pushing, or punching.
- At 75th Street School in Los Angeles, California, kids in every grade learn how to solve problems without fighting. The school has a team of students called conflict managers who are specially trained.
- How do students become conflict managers? First, they must be in grades 4 or 5. Then, teachers and other students must choose them. In the playground, these conflict managers keep an eye out for arguments. They help solve problems when students disagree.
- C.** In honor of Fire Safety Week, here are some fire safety tips for you to follow:
- Never play with matches or lighters.
 - Ask your parents to make sure your home has smoke detectors and a fire extinguisher.
 - Make a plan for escaping from your home in case of fire. Learn two ways out of every room. Pick a spot outside where your family will meet. Practice!
 - If there is a fire in your home, get out and stay out! Use a neighbor's phone to call for help.
 - Find a route out of the building that is free from smoke and flames. If you have to go through a smoky area to escape, crawl on your hands and knees. The air near the floor will be cooler and less smoky.
 - If your clothes catch fire, do not run. Drop to the ground, and roll back and forth to put out the flames.

- 1.** This article is mainly about
- Ⓐ. why kids argue.
 - Ⓑ. schools in California.
 - Ⓒ. one solution to playground fighting.
 - Ⓓ. violence in the community.
- 2.** The conflict managers are
- Ⓐ. college students.
 - Ⓑ. teachers at 75th Street School.
 - Ⓒ. in 1st or 2nd grade.
 - Ⓓ. in 4th or 5th grade.
- 3.** The story would probably go on to talk about
- Ⓐ. popular playground games.
 - Ⓑ. how conflict managers handle arguments.
 - Ⓒ. how to do first aid outdoors.
 - Ⓓ. downtown Los Angeles.
- 1.** The purpose of this article is to
- Ⓐ. explain why fires start.
 - Ⓑ. teach fire safety.
 - Ⓒ. describe what a fire is like.
 - Ⓓ. show how fire can be used safely.
- 2.** In this story, the word *route* means
- Ⓐ. path.
 - Ⓑ. place.
 - Ⓒ. door.
 - Ⓓ. air.
- 3.** To escape a smoky area, you should
- Ⓐ. run.
 - Ⓑ. scream.
 - Ⓒ. crawl.
 - Ⓓ. roll back and forth on the ground.
- 4.** Which is a *fact* about fire safety?
- Ⓐ. You should have fire drills often.
 - Ⓑ. In case of fire, save your toys first.
 - Ⓒ. In a fire, the air is cooler near the floor.
 - Ⓓ. Children should never use matches.

Grade 4 Practice Test 2 Scholastic Success With Reading Tests

Temperature Conversion Worksheet

The two temperature scales used most often to record temperature are the Celsius scale and the Fahrenheit scale. The Fahrenheit scale is used almost exclusively in the United States while the rest of the world used the Celsius scale.

To convert from one scale to another the following formula may be used:

$F = 1.8C + 32$ (What does the 32 represent?)

In other classes you may have used the fraction $\frac{9}{5}$ instead of the decimal 1.8. To find the Fahrenheit or Celsius temperature values, multiplying the fraction with the decimal will make the algebra needed to solve for other temperature easier to work using a calculator. AND the decimal value is rounded to 2 estimation of the temperature value in each case.

Convert 10.0°C to °F. Estimated answer: $20.0 - 20 + 32 = 52°F$

$F = 1.8C + 32$
 $°F = 10.0 + 32$
 $°F = 42.0 + 32$
 $°F = 74.0$

Convert 10.0°F to °C. Estimated answer: $10 - 32 = -22 \div 2 = -11°C$

$F = 1.8C + 32$
 $10.0 - 1.8C = 32$
 $-22 = -1.8C$
 $-12.2 = C$

Work the following temperature conversions.

Celsius	°C	Fahrenheit	°F
0.0		40.0	
55.0		130	
37.3		99.0	
-4.5		-45	
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More Specific Categories of the Periodic Table:
 Fill in the blanks for each of the categories below and shade in its portion of the periodic table.

Alkali Metals

- Most _____ metals
- Do not occur freely in nature
- Have only _____ valence electron.
- Exposure to water = _____

Alkaline Earth Metals

- Reactive metals.
- Have _____ valence electrons.
- Do not occur freely in nature

Transition Metals

- Depending on the element, valence electrons are found in _____ electron shells.
- _____, _____, and _____ are the only elements known to create a _____ field.

Language Parts: Many instructor-facing pages are only in English, and the language is not marked. For each one you first evaluate an indefinite integral and then evaluate a related improper integral. Last day to withdraw or choose Grade/Pass/NoCredit: Friday October 23, 2020 Last day for in-person classes: Friday, November 20.

Thanksgiving break: Saturday November 21 to Sunday November 29, 2020. As per current university requirements for large classes, the twice-a-week lectures will be online via Zoom, but the once-a-week recitation sections led by teaching assistants (TAs), will meet in-person for Lecture 1. Tue Sept 8, notes and problems Tue Sept 8, notes, problems and solutions Thur Sept 10, notes and problems Thur Sept 10, notes, problems and solutions Lumen OHM participation problems for Sept 10 are optional, since we did not do them in class. (There is no longer any Lecture 2 for MAT 126. Week 1, Aug 24 - Aug 28 Topics covered: Course administration, class webpage, Blackboard, Lumen OHM Very quick review of limits and derivative (MAT 125) Table of derivatives. Page 6 is 4 problems on physical applications: 2 on worked needed to lift slices and 2 on finding mass of a disk given a density (Similar to Quiz 6 and problems worked in lecture). When two sections are listed, we will generally do one per lecture. If you lose the connection, rejoin when you can; the lectures will be recorded so you can view the missed parts later. Images of the answer sheets should be submitted as a PDF file; there are many apps that will convert a picture to PDF format. I will take questions about it in the live lecture on Thur Nov 5. Trig Integration Strategies This summarizes strategies from Section 3.2. You may print this and bring to recitation in Week 11 to use on Quiz 8. Reading day: Tuesday December 8, 2020. 4. Click this for links to previous lecture recordings. When there are three listed, the middle topic will often straddle both lectures. Usually one can only P/NC one course per semester, but this semester the university is allowing students to P/NC two classes. However, students may submit quiz and midterm answers electronically if they wish. Instead of a short break on Oct 12 and 13, we will get all of Thanksgiving week off instead. To do this, download and print this MAT 126 Answer Sheet, which contains 30 empty boxes for multiple choice responses (only use as many as needed, e.g., 10 for a quiz). Their webpage is Student Health Services. We will cover the definitions of definite and indefinite integrals, the fundamental theorem of calculus, methods of explicitly evaluating integrals, applications to computing areas, volumes, arclengths and other applications, parametric equations and calculus with polar coordinates. Wikipedia page on Isaac Newton. Representing another person's work as your own is always wrong. A description of MAT 125 and links to webpages from previous semesters can be found here. I will occasionally post announcements in Blackboard; you should receive email notifications whenever this occurs. It can integrate with most screenreaders. MAT 126: Calculus B, Lecture 1, Fall 2020 Returning to class after illness: The University asks students who have been ill to contact the Student Health Center. Week 6, Sept 28 - Oct 2, Quiz 4 Topics covered: Section 2.2 Determining Volumes by Slicing Section 2.3 Volumes of Revolution: Cylindrical Shells Sept 29, Midterm 1 results, notes and problems Sept 29 notes, problems and solutions Oct 1 notes and problems, Quiz 5 review Oct 1 notes, problems and solutions, Quiz 5 review Week 7, Oct 5 - Oct 9, Quiz 5 Topics covered: Section 2.4 Arc Length of a Curve and Surface Area Section 2.5 Physical Applications Oct 6 notes and problems, HW 6, arclength, surface area Oct 6 notes, problems and solution Oct 8 notes and problems, physical applications, Quiz 6 review Oct 8 notes, problems and solution Week 8, Oct 12 - Oct 16, Quiz 6 Topics covered: Section 2.6 Moments and Centers of Mass Oct 13 notes and problems, Center of mass, Theorem of Pappus Oct 13 notes, problems and solutions. If I can't come back right away, I will send an email to the class when I can, and post a recording on any material we did not cover. Office Hours I will hold office hours via Zoom: Tu-Th 11:00am-12:30am. Week 12, Nov 9 - Nov 13, Quiz 9 (on Sections 3.3, 3.4, 3.7), Last in-recitation quiz. Last week for Lecture 1. Student Resources in Lumen OHM : The Lumen OHM page includes material like extra practice exercises and videos on various topics. Math Learning Center (MLC) and office hours MLC webpage. If you prefer smaller files, here are the individual chapters we plan to cover: Chapter 1, Chapter 2, Chapter 3, Chapter 7. Wikipedia page on Pappus. Links to individual sections of the text are given below in the lecture schedule. Stony Brook Virtual SINC Site Late in the course I expect to demonstrate software from the Virtual SINC Site. Even though we won't need to use the Virtual SINC Site much in this class, it is good idea to make sure you can access it for future classes. The worst two quiz grades will be dropped and missed quizzes will count among these. Link Purpose: On instructor pages, some link's purpose is only evident through title text or aria-label text. Headings and Labels: Some instructor pages have unclear or missing labels. Access to Zoom lectures and recitations will be provided through your Blackboard account. The exam itself may not be photographed or kept. Week 2, Aug 31 - Sept 4, Quiz 1 Topics covered: Section 1.1 Approximating areas Section 1.2 Integration integrate.m This is the MATLAB code I ran in class to illustrate left and right hand approximations to integrals. 3. Fifth problem is to match a formula to a graph. Solar System Solar System is the Stony Brook University administrative management system (registration, bills,...). Last day to add/drop: Friday, Sept 4, 2020. Last day of classes: Monday December 7, 2020. Textbook The textbook is Volume 2 of Calculus by Open Stax at Rice University. Please let me know if you have any trouble seeing the Lumen content using the link in Blackboard. First four problems all deal with integrating one function: do long division to reduce a rational function with a quadratic denominator, find the two coefficients A,B for partial fraction and then evaluate integral. Lumen OHM problems sets (20%): Lumen provides a free (to the student) Online Homework Management system that generates random variations of problems selected by the instructor and grades them automatically. Finals: Wednesday December 9 to Thursday December 17, 2020. It will be given in the Lumen OHM system, the same system used for the online homework. Lecture 3 of MAT 126 is taught by Prof. You do NOT need to sign up for an Lumen OHM account; the assignments should be visible to you through Blackboard (in fact, if you access the homework from an individually set up Lumen OHM account, and not through Blackboard, your homework grades may not be recorded in Blackboard correctly). This gives you access to various software packages on a university license, such as Mathematica and Matlab. Normally, the MLC is a room in the basement (SL level) of the Math Tower where you can go for face-to-face help with teaching assistants and faculty (not necessarily your own instructors). That lecture was cancelled over the summer and Lecture 3 was not renamed.) Masks The university requires students to wear masks during in-person recitations. All information and documentation is confidential. You will be allowed multiple attempts to do each problem without a penalty, and to ask for an alternate version of the problem instead. Section 3.4 Partial Fractions Section 3.7 Improper Integrals Wikipedia page on Heaviside method for computing partial fractions. Exams in recitation (3 exams, 15% each, 45% total): There will be three exams taking up an entire recitation section in weeks 5, 9 and 13. Topics covered: Course grades, final exam Section 7.3 Polar Coordinates Section 7.4 Area and Arc Length in Polar Coordinates Tuesday, Dec 1 notes Tuesday Dec 1, marked notes Thursday, Dec 3 notes Thursday, Dec 3 is last meeting of Lecture 1. Students who need to be able to zoom the screen, who have trouble with fine control of the mouse, who have seizures or distraction issue, or needing especially high contrast will be able to use OHM. This lecture will be pre-recorded. With luck, this won't happen too often. For more information about PAL, click here. No make-up quizzes will be given. Sample problems for midterm and solutions notes from class. Page 4: 5 problems on partial fractions. We will use Lumen OHM for homework, so you will need a device with a web browser that can connect to the Stony Brook Blackboard site to access homework. Important Note: online versus in-person: Lecture 1 (this lecture) has online lectures but in-person recitations which are mandatory to attend. You are also welcome to make an appointment via email. User-created content, including questions, text materials, and videos may contain elements that do not meet the accessibility standards. Using the virtual Sinc Site requires downloading the Citrix receiver software (you will be prompted). Contrast: Some instructor pages use greyed text of insufficient contrast. Pros: Student-facing pages are accessible. TLT provides academic technology support to all students. If there is a problem with the above link, two alternatives are: Calculus, Volume 2 and here. Lecture 1 Instructor Prof. For more information, visit: Required Syllabus Statements The University Senate Undergraduate and Graduate Councils have authorized that the following required statements appear in all teaching syllabi (graduate and undergraduate courses) on the Stony Brook Campus. Lecture Schedule For each week I list sections of the text we plan to cover that week. This is a free online textbook that can be downloaded from the link on this page. Nov 3, notes, problems. For more comprehensive information on academic integrity, including categories of academic dishonesty please refer to the academic judiciary website at Critical Incident Management Stony Brook University expects students to respect the rights, privileges, and property of other people. If you need to review limits and derivatives, look at Chapters 1-4 of Volume 1 of our current textbook, that can be downloaded from Open Stax Calculus Vol 1 A Lumen OHM course giving review problems of MAT 125 material can be found here with course ID 44639 and enrollment key "MAT 125 review". Dang or the mathematics undergraduate director, Prof. In-person versus online recitation sections In order to accommodate students who cannot come to campus regularly, MAT 126 is taught in two lectures, one with in-person recitations and one with online recitations. Sutherland. ACCESS LUMEN OHM THROUGH BLACKBOARD There is a link to the class Lumen page in Blackboard, just underneath the Zoom link on left hand side. > DoIT Software Catalog MAT 331, Fall 2018 my course using MATLAB (other instructors may use different software) Chapter 3 Review from textbook Review materials for Midterm 3 Sample of Quiz 7 with answers Sample of Quiz 8 with answers Sample of Quiz 9 with answers Midterm 3 is in recitation next week: 25 multiple choice questions on 6 pages. This policy allows you to set a threshold so that if you score above the threshold in a class you get a that grade on your transcript, and otherwise you get a P (for pass) or NC (no credit), neither of which affects your GPA. Here is a link to check who is holding math department undergraduate advising hours now (questions about placement exams, classes, scheduling,...). Each recitation will end with a short 10-15 minute quiz on the same material, so that it is to your advantage to have done all the problems and ask for help during the recitation, before the quiz. Details will be provided at the beginning of the semester. This is not required and is only made available in case you want to review any MAT 125 3.6 will not be on the midterm or final. Student Accessibility Support Center Statement If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact the Student Accessibility Support Center, 128 ECC Building, (631) 632-6748, or at sas@stonybrook.edu. FAX: (631) 632-7631 my homepage Course Summary This is a second course in calculus covering methods and applications of integration; enrolled students should have already passed MAT 125 or had an appropriate score on the Mathematics Department placement exam. First day of classes: Monday August 24, 2020. In general, the Lumen OHM problems only give credit for a correct answer in the correct form; no partial credit. The last two problems are to first set up an integral related to arclength and then evaluate it using a trig integral (your sheet of notes may be helpful). For Apple phones there is Genius Scan, which other students have reported works well. For in-person recitations, these are written on a sheet of paper and handed in. Faculty are required to report to the Office of University Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Class participation (5%): There will be assignments in Lumen OHM to be done during lectures: many of these problems I will do as examples and you simply have to enter my answer into the standars. Page 2 is 2 matching formulas for area between graphs to appropriate figures, and then finding two area from the figures (similar to Quiz 4). Their phone number is 631-632-6740. Nov 3, notes and problems. Online final exam (10%): There will be a cumulative online final exam on all the sections of textbook covered in the class. Stony Brook Gmail Check your firstname.lastname@stonybrook.edu email here. Topics in the history of Calculus Below are some reading about the history of calculus that may be of interest. Accessibility

