Lecture Announcements: MAC2311 sec. 8-13  Fri., April 24
Instructor: Dr. Kutter
Office: 111 MCH  email: kutter@math.fsu.edu

1. Last Day of Lecture Class – Review for Final Exam

2. The Final Exam will be given at the time and date listed below.

   **Bring pencils, erasers and your FSU ID.**

   The Final Exam is cumulative. Approximately *60-65%* of the questions will be **review material** (as covered on Unit Tests 1 – 4) and *35-40%* will be **new material** (sec. 5.5, 6.1-6.3 and 6.5.)

   More information is posted on Bb under “From Dr. Kutter”.

The Final Exam for MAC2311 sec 8-10 (*lecture at 12:20 pm*) will be given on **Thursday, April 30 from 10 – 12 noon in 101LOV**

The Final Exam for MAC2311 sec 11-13 (*lecture at 1:25 pm*) will be given on **Friday, May 1 from 10 – 12 noon in 101LOV**.

4. To ask questions during exam week:

**Dr. Kutter:**
Office Hours on M,T,Th. 1:30-2:30pm, W 12:30 – 1:30pm.
Help Sessions in 110MCH - MW 3:30 – 5 pm.
* I will be “on-call” for emergencies related to computer testing during portions of this time.*

**Ms. Valdes’s** office hour: M 9:45-10:45 am.

**Ms. Acar’s** office hours: T 2:30 – 4:30 pm.
Lecture Announcements: MAC2311 sec. 8-13 Wed., April 22
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu

3. **Today and Friday in Lecture** – Review for Final Exam – you may bring questions and I will answer them as time permits

4. **Upcoming dates** -

Recitation on Thurs., April 23 quiz covering sec. 6.2, 6.3 & 6.5.
- due on Fri., April 24: 6.5 Homework
  - (optional – for “bonus” pts.) 6.4 Homework

3. The **Final Exam** will be given at the time and date listed below.

   **Bring pencils, erasers and your FSU ID.**

   The Final Exam is cumulative. **Approximately 60-65% of the questions will be review material** (as covered on Unit Tests 1 – 4) and **35-40% will be new material** (sec. 5.5, 6.1-6.3 and 6.5.)

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The Final Exam for MAC2311 sec 8-10 (**lecture at 12:20 pm**) will be given on **Thursday, April 30 from 10 – 12 noon** in 101LOV

The Final Exam for MAC2311 sec 11-13 (**lecture at 1:25 pm**) will be given on **Friday, May 1 from 10 – 12 noon** in 101LOV.

4. **To ask questions about the course material:**

   Help Sessions in 110MCH - on Mon. and Wed. from 3 – 4:30 pm.
   Dr. Kutter’s office hours in 111MCH (for individual discussions about grades, absences, course policies, etc.): Thurs 2:30 - 3:30 pm;
   F 10 - 11 am or by appointment.

   **During exam week** - office hours: M,T, Th. 1:30-2:30pm, W 12:30 – 1:30pm.
   Help Sessions in 110MCH - MW 3:30 – 5 pm.  *I will be “on-call” for emergencies related to computer testing during portions of this time.*

   Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm
   **During exam week** - Ms. Acar’s office hours: T 2:30 – 4:30 pm.

   Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50pm
Lecture Announcements:  MAC2311 sec. 8-13  Mon., April 20
Instructor:  Dr. Kutter
Office: 111 MCH  email:  kutter@math.fsu.edu
Homepage:  http://www.math.fsu.edu/~kutter

1.  Today in Lecture – cover sec. 6.4 (briefly) and 6.5.

**Wed. and Fri., Apr. 22 & 24** – finish “loose ends” and Review for Final Exam – you may bring questions and I will answer them as time permits.

5.  Upcoming dates
   - due on Wed., April 22: 6.3 Homework and
     o (optional – for “bonus” pts.) 6.4 Homework
   - due on Fri., April 24: 6.5 Homework

3.  The Final Exam will be given at the time and date listed below.  
   **Bring pencils, erasers and your FSU ID.**

   The Final Exam is cumulative.  Approximately **60-65%** of the questions will be **review material** (as covered on Unit Tests 1 – 4) and **35-40%** will be **new material** (sec. 5.5, 6.1-6.3 and 6.5.)

   More information is posted on Bb under “From Dr. Kutter”.

   The Final Exam for MAC2311 sec 8-10 *(lecture at 12:20 pm)* will be given on **Thursday, April 30 from 10 – 12 noon** in 101LOV

   The Final Exam for MAC2311 sec 11-13 *(lecture at 1:25 pm)* will be given on **Friday, May 1 from 10 – 12 noon** in 101LOV.

4.  To ask questions about the course material:

   **Help Sessions in 110MCH** - on Mon. and Wed. from 3 – 4:30 pm.

   Dr. Kutter’s office hours in 111MCH *(for individual discussions about grades, absences, course policies, etc.)*: Thurs 2:30 - 3:30 pm;  
   F 10 - 11 am  or by appointment.

   **During exam week** - office hours: M,T,Th. 1:30-2:30pm,W 12:30 – 1:30 pm.  

   **Help Sessions in 110MCH** - **MW 3:30 – 5 pm.**

   **Ms. Acar** (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

   **Ms. Valdes** (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50pm
Lecture Announcements: MAC2311 sec. 8-13 Fri., April 17
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

6. Today in Lecture – Finish Sec. 6.3 and cover sec. 6.4 (briefly.)
   Mon., Apr. 20 – cover sec. 6.5
   Wed. and Fri., Apr. 22 & 24 – finish “loose ends” and Review for
   Final Exam – you may bring questions and I will answer them as
   time permits.

7. Upcoming dates
   • due on Wed., April 22: 6.3 Homework and
     o (optional – for “bonus” pts.) 6.4 Homework
   Recitation on Thurs., April 23 quiz covering sec. 6.2, 6.3 & 6.5.
   • due on Fri., April 24: 6.5 Homework

3. The Final Exam will be given at the time and date listed below.

   Bring pencils, erasers and your FSU ID.
   The Final Exam is cumulative. Approximately 60-65% of the
   questions will be review material (as covered on Unit Tests 1 – 4)
   and 35-40% will be new material (sec. 5.5, 6.1-6.3 and 6.5.)
   More information is posted on Bb under “From Dr. Kutter”.

   The Final Exam for MAC2311 sec 8-10 (lecture at 12:20 pm) will be
   given on Thursday, April 30 from 10 – 12 noon in 101LOV

   The Final Exam for MAC2311 sec 11-13 (lecture at 1:25 pm) will be
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   Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm
   Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50pm


The Final Exam will be cumulative:

1. **Review Material**: Omit sections 3.8, 3.10, 3.11, 4.2, 4.6, 4.8, 5.1. Work odd numbered problems as follows:
   - **Section 2.2** (p. 96 # 3-9 odd, 15-17) Evaluating limits given graphs and sketching graphs given limits
   - **Section 2.3** (p. 106 # 11-29, 41-45) Evaluating limits using limit laws
   - **Section 2.5** (p. 127 # 3,17-23, 35-39, 41-43) Using graphs or algebraically defined functions to find discontinuities; determine if functions are continuous, left continuous, right continuous at point and on intervals; find constants that make functions continuous
   - **Section 2.6** (p. 140 # 3-9, 15-35, 41-45, 53-55) Limits at infinity and horizontal asymptotes. Know how to find limits as the variable tends to \( \infty \) and \(-\infty\); know what these limits tell you about the graph of a function.
   - **Section 2.7** (p. 150 # 1, 5-7, 17, 19, 33-37) Know the difference between slopes of secant vs. tangent lines and average rates of change (or velocity) vs. instantaneous rates of change (or velocity). Know the relation between the value of \( f(x) \) and the graph of \( f(x) \). Recognize a derivative when written as a limit.
   - **Section 2.8** (p. 162 # 1-11, 21-29, 35-37, 43-45) Definition of the derivative, differentiability. Know how the graph of a function relates to the graph of its derivative. Know how to find a derivative using the limit definition of a derivative. Know how to determine if a function is differentiable at a point using the graph and/or equation. **IMPORTANT**: When instructions say: “use the definition of the derivative to find …”, you MUST use a limit definition or you will not receive credit. Using formulas (Ch 3 material) is only ok to check your answer.
   - **Sections 3.1-3.4 and 3.6 RULES**. Know all the differentiation formulas (except the hyperbolic trig function rules) and be able to use them to find derivatives. Use sec. 3.6 p. 223 # 1-33, 37-49 and chapter review p.265 # 1-51 (except 43, 45, 47, 48), and 57-59 for cumulative practice using the rules.
   - **Section 3.3** In addition to rules (as above) - using the limit \( \lim_{x \to 0} ((\sin x)/x) = 1 \).
   - **Section 3.5** (p. 215 # 1-29, 35-37) Implicit Differentiation: Know how to find \( dy/dx \) when the \( y \) is not a function of \( x \).
   - **Section 3.7** (p. 230 # 1-9). Understand the relations between position, velocity, and acceleration.
   - **Section 3.9** (p. 248 #1-31). Related rates. Set up and solve any related rates problem. When a quantity is “changing” at a rate – that is the derivative with respect to \( t \).
   - **Section 4.1** (p. 280 # 3-43, 47-61). Find absolute extrema and where they occur. Find Critical numbers.
   - **Section 4.3** (p. 297 # 1-51). Know how to use a function and its derivatives to find intervals increasing, decreasing, concave up, concave down, local extrema, inflection points, asymptotes. Be able to put it all previous info together to create a graph.
• **Section 4.4** (p. 307 # 1-65) Indeterminate forms and L’Hospital’s Rule.
• **Section 4.5** (p. 317 # 1-55, 61-65) Graphing.
• **Section 4.7** (p. 331 # 1-31) Optimization. The level of difficulty of the (potential) problem on the exam will be the level in these problems. Review your steps in optimizing a quantity.
• **Section 4.9** (p. 348 # 1-48, 51-52, 55, 59-64) Antiderivatives. Know and be able to apply all the formulas for antiderivatives in the table on page 345.
• **Section 5.2** (p. 382 # 1-12, 17-20, 29-30, 33-42, 47-49) The definite integral. Calculations like those in problems 1-12 would be chosen so that the arithmetic is not too time consuming. You should understand the definition and properties of the definite integral.
• **Section 5.3** (p. 394 # 2-4, 7-42, 53-59). The Fundamental Theorem of Calculus. The two versions give you the relation between the definite integral and the derivative. Be able to use them.
• **Section 5.4** (p. 397 # 5-18, 21-44). Know how to find indefinite Integrals; Know all the integral rules on page 398 except those involving hyperbolic trig functions.

2. **New Material**
• **Section 5.5** (p. 413 # 7-48, 53-70) Know integration by substitution!
• A good mixed review for integration (sections 5.4 and 5.5 combined) is on page 417 # 9-38.
• **Section 6.1** (p. 427 # 5-28) Finding area of regions enclosed by curves
• **Section 6.2** (p. 438 # 1-34)
• **Section 6.3** (p.444 # 3-7, 9-26, 37-43) Find volumes of solids.
• A good mixed review of finding volumes of solids of revolution is on pg 457 # 7-16
• **Section 6.4** OMIT
• **Section 6.5** p. 453 # 1 – 8.

For Related Rate and Optimization problems, you would be provided the following formulas, if required:
Lecture Announcements:  MAC2311 sec. 8-13  Wed., April 15
Instructor:  Dr. Kutter
Office: 111 MCH  email:  kutter@math.fsu.edu
Homepage:  http://www.math.fsu.edu/~kutter

3. **Today in Lecture** – Finish Sec. 6.2 and begin sec. 6.3.  
*Spend some time looking at the animations in the eBook for section 6.2 – until you can “see” the three dimensional picture associated with Solids of Revolution, the Disc Method and the Washer Method.* Remember - you should start at the beginning of the practice and work every other problem (usually the easiest and most straight forward problems) until you reach an initial level of mastery before attempting the Homework assignment.

4. **Upcoming dates**
   - Recitation on Thurs., April 16 quiz covering sec. 5.5, 6.1-6.2.
   - due on Fri., April 17:  6.2 Homework
   - due on Mon., April 20:  6.3 Homework
   - due on Wed., April 22:  6.4 Homework
   - Recitation on Thurs., April 23 quiz covering sec. 6.3-6.5.
   - due on Fri., April 24:  6.5 Homework

4. The **Final Exam** for MAC2311 sec 8-10 *(lecture at 12:20 pm)* will be given on  Thursday, April 30 from 10 – 12 noon  in 101LOV
The **Final Exam** for MAC2311 sec 11-13 *(lecture at 1:25 pm)* will be given on  Friday, May 1 from 10 – 12 noon  in 101LOV.

5. To ask questions about the course material:
   **Help Sessions in 110MCH** - on Mon. and Wed. from 3 – 4:30 pm.

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Ms. Valdes  (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50pm
Lecture Announcements:  MAC2311 sec. 8-13    Mon., April 13
Instructor:  Dr. Kutter
Office: 111 MCH                 email:  kutter@math.fsu.edu
Homepage:  http://www.math.fsu.edu/~kutter

5. **Today in Lecture** – Finish Sec. 6.1 and begin sec. 6.2
   *Spend some time looking at the animations in the eBook for section 6.2 – until you can “see” the three dimensional picture associated with Solids of Revolution, the Disc Method and the Washer Method. Remember - you should start at the beginning of the practice and work every other problem (usually the easiest and most straight forward problems) until you reach an initial level of mastery before attempting the Homework assignment.*

2. **Upcoming dates**
   - due on Wed., April 15: 6.1 Homework
   - Recitation on Thurs., April 16 quiz covering sec. 5.5, 6.1-6.2.
   - due on Fri., April 17: 6.2 Homework
   - due on Mon., April 20: 6.3 Homework
   - due on Wed., April 22: 6.4 Homework
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- **Section 5.4** (p. 397 # 5-18, 21-44). Know how to find indefinite Integrals; Know all the integral rules on page 398 except those involving hyperbolic trig functions.

2. New Material – to be announced

For Related Rate and Optimization problems, you would be provided the following formulas, if required:

<table>
<thead>
<tr>
<th>Sphere</th>
<th>Cylinder</th>
<th>Cone</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Sphere" /></td>
<td><img src="image" alt="Cylinder" /></td>
<td><img src="image" alt="Cone" /></td>
</tr>
</tbody>
</table>
| \( V = \frac{4}{3}\pi r^3 \)  
\( A = 4\pi r^2 \)  
\( A_{side} = 2\pi r h \)  
\( A_{side} = \pi r \sqrt{r^2 + h^2} \) | \( V = \pi r^2 h \)  
\( A_{side} = 2\pi rh \)  
\( A_{side} = \pi r \sqrt{r^2 + h^2} \) | \( V = \frac{1}{3}\pi r^2 h \)  
\( A_{side} = \pi r \sqrt{r^2 + h^2} \) |
Lecture Announcements: MAC2311 sec. 8-13   Fri., April 10
Instructor:  Dr. Kutter
Office: 111 MCH    email:  kutter@math.fsu.edu
Homepage:  http://www.math.fsu.edu/~kutter

1. Today in Lecture – Finish Sec. 5.5 and begin sec. 6.1
2. Upcoming dates
   • due on Mon., April 13: 5.5 Homework (important section)
   • due on Wed., April 15: 6.1 Homework
   • Recitation on Thurs., April 16
     quiz covering sec. 5.5, 6.1-6.2.
   • due on Fri., April 17: 6.2 Homework
   • due on Mon., April 20: 6.3 Homework
   • due on Wed., April 22: 6.4 Homework
   • Recitation on Thurs., April 23
     quiz covering sec. 6.3-6.5.
   • due on Fri., April 24: 6.5 Homework

4. The Final Exam for MAC2311 sec 8-10 (lecture at 12:20 pm) will
   be given on Thursday, April 30 from 10 – 12 noon in 101LOV

The Final Exam for MAC2311 sec 11-13 (lecture at 1:25 pm) will
be given on Friday, May 1 from 10 – 12 noon in 101LOV.

   Coming soon – more information about the Final Exam.

5. To ask questions about the course material:
   Help Sessions in 110MCH - on Mon. and Wed. from 3 – 4:30 pm.
   Dr. Kutter’s office hours in 111MCH (for individual discussions about
   grades, absences, course policies, etc.): Thurs  2:30 - 3:30 pm;
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   Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm
   Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50pm
1. **Today in Lecture** – Review for Test 4
   Fri. – Finish Sec. 5.5 and begin sec. 6.1

2. **Upcoming dates**
   • **due on Mon., April 13:** 5.5 Homework (important section)

3. **Test 4** will be given in recitation on Thursday, **April 9**
   covering section 4.7, 4.9 and section 5.1-5.4. The formulas
   below will be given to you.

   \[
   \begin{align*}
   \text{Sphere} & : & V &= \frac{4}{3}\pi r^3 \\
   & & A &= 4\pi r^2 \\
   \text{Cylinder} & : & V &= \pi r^2 h \\
   & & A_{side} &= 2\pi rh \\
   \text{Cone} & : & V &= \frac{1}{3}\pi r^2 h \\
   & & A_{side} &= \pi r\sqrt{r^2 + h^2}
   \end{align*}
   \]

4. **To ask questions about the course material:**
   **Help Sessions in 110MCH** - on Mon. and Wed. from 3 – 4:30 pm.

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   **Ms. Acar** *(in 402-J MCH)* Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

   **Ms. Valdes** *(in 409-A MCH)* Mon&Wed. 12:10-1:10pm; Tues. 12:50-
1:50pm
Lecture Announcements:  MAC2311 sec. 8-13  Mon., April 6
Instructor:  Dr. Kutter
Office: 111 MCH  email:  kutter@math.fsu.edu
Homepage:  http://www.math.fsu.edu/~kutter

1. **Today in Lecture** – finish sec. 5.4 and begin sec. 5.5.
   Wed. – Review for Test 4
   Fri. – Finish Sec. 5.5 and begin sec. 6.1

2. **Upcoming dates**
   - due on Wed., April 8:  5.4 Homework
   - due on Mon., April 13:  5.5 Homework (important section)

3. **Test 4** will be given in recitation on Thursday, **April 9**
   covering section 4.7, 4.9 and section 5.1-5.4. The formulas below will be given to you.

4. **To ask questions about the course material:**
   Help Sessions in 110MCH - on Mon. and Wed. from 3 – 4:30 pm.
   Dr. Kutter’s office hours in 111MCH (for individual discussions about grades, absences, course policies, etc.): Thurs  2:30 - 3:30 pm;
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   Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm
   Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-
1.50pm
Lecture Announcements: MAC2311 sec. 8-13  Fri, April 3
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. **Today in Lecture** – finish sec. 5.3 and begin sec. 5.4.

2. **Upcoming dates**
   - due on Mon., April 6: 5.3 Homework
   - due on Wed., April 8: 5.4 Homework
   - due on Mon., April 13: 5.5 Homework (important section)

3. **Test 4** will be given in recitation on Thursday, **April 9** covering section 4.7, 4.9 and section 5.1-5.4.

4. To ask questions about the course material:

   **Help Sessions in 110MCH** - on Mon. and Wed. from 3 – 4:30 pm.

   **Dr. Kutter’s office hours in 111MCH** (for individual discussions about grades, absences, course policies, etc.): Thurs 2:30 - 3:30 pm; F 10 - 11 am or by appointment.

   **Ms. Acar** (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

   **Ms. Valdes** (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50pm
Topics to study for Test 4:

**Section 4.7 – Optimization** (recitation worksheet, p. 331 # 1-39). Be able to set up a function to be optimized, find and analyze critical numbers (using either first derivative test, second derivative test or closed interval method as appropriate) and answer the question asked.

**Section 4.8** – not tested

**Section 4.9 – Antiderivatives** (p. 348 #1-55, 59-64). Know the formulas for antiderivatives on page 345. Be able use these formulas to find the most general antiderivative or the particular antiderivative which satisfies a given condition.

**Section 5.1 and 5.2 – Riemann sums, area and the definite integral** (p. 369 #1-5, 13-18 and p. 382 #1-12, 17-20, 29-30, 33-42, 47-49.)
Be able to estimate area and/or a definite integral using a Riemann sum; be able to use the interpretation of the definite integral as a sum of signed areas to find the exact value of a definite integral; know and be able to use the properties of the definite integral listed in lecture class (and on page 379-381 of the text).

**Section 5.3 - the Fundamental Theorem of Calculus** (p. 394 # 2-5, 7-40, 53-56,67). Be able to use both parts versions of the FTC.

**Section 5.4 - the Indefinite Integral** (p. 403 # 5-18, 21-41). Be able to find indefinite integrals.

Expect approximately 10 pts from section 4.7, approximately 25 pts from sections 5.1-5.2.
and the remainder from 4.9, 5.3 and 5.4.

Lecture Announcements: MAC2311 sec. 8-13 Wed., April 1
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. **Today in Lecture** – finish sec. 5.2 and begin sec. 5.3.

2. **Upcoming dates**

   • **Recitation on Thurs., April 2**
   
   quiz covering **sec. 4.9, 5.1-5.2.**
   
   • due on Fri., April 3: 5.2 Homework
   • due on Mon., April 6: 5.3 Homework
   • due on Wed., April 8: 5.4 Homework & 5.5 Homework

   • **Recitation on Thursday, April 9**
   
   Test 4 covering **sec. 4.7, 4.9 and 5.1-5.5.**

3. **To ask questions about the course material:**

   **Help Sessions in 110MCH** - on Mon. and Wed. from 3 – 4:30 pm.

   **Dr. Kutter’s office hours in 111MCH (for individual discussions about grades, absences, course policies, etc.):** Thurs 2:30 - 3:30 pm;

   F 10 - 11 am or by appointment.

   **Ms. Acar** (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

   **Ms. Valdes** (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-
Lecture Announcements:  MAC2311 sec. 8-13  Mon., March 30
Instructor:  Dr. Kutter
Office: 111 MCH  email:  kutter@math.fsu.edu
Homepage:  http://www.math.fsu.edu/~kutter

1. Today in Lecture – finish sec. 5.1-5.2.

2. After class today, you will be able to pick up the lecture quiz given Mar 26. The key will be posted on Bb under “from Dr. Kutter” – please make sure you understand any error you made.

2. Upcoming dates
• due on Fri., Mar 27:  4.8 Homework
• due on Mon., Mar 30:  4.9 Homework
• due on Wed., April 1:  5.1 Homework

Recitation on Thurs., April 2
quiz covering sec. 4.9, 5.1-5.2.
• due on Fri., April 3:  5.2 Homework
• due on Mon., April 6:  5.3 Homework
• due on Wed., April 8:  5.4 Homework & 5.5 Homework

Recitation on Thursday, April 9
Test 4 covering sec. 4.7, 4.9 and 5.1-5.5.

3. To ask questions about the course material:
Help Sessions in 110MCH - on Mon. and Wed. from 3 – 4:30 pm.

Dr. Kutter’s office hours in 111MCH (for individual discussions about grades, absences, course policies, etc.): Thurs 2:30 - 3:30 pm; F 10 - 11 am or by appointment.
Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm
Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Lecture Announcements:  MAC2311 sec. 8-13  Fri., March 27
Instructor:  Dr. Kutter
Office: 111 MCH email:  kutter@math.fsu.edu
Homepage:  http://www.math.fsu.edu/~kutter

1.  **Today in Lecture** –  finish sec. 4.9, begin sec. 5.1-5.2.

2.  Test 3 was returned in recitation class yesterday.

   *The key is posted on Bb under “*From Dr. Kutter”* – please make sure you understand any error you made. The Final will be cumulative.*

   **Opportunity to “earn” up to 4 pts on your Test 3 grade:**

   1) Students who earn a grade on Test 4 which is at least 4 points higher than their grade on Test 3 will have 4 points added to their Test 3 grade; e.g. a student who earned a 76 on Test 3 and then an 80 on Test 4 will have their Test 3 grade changed to 80.

   2) Students who have a grade of 97 or higher on Test 3 and who earn a score of 100 on Test 4 will receive a grade of 100 on their Test 3.

2.  **Upcoming dates**

   due on Fri., Mar 27:  4.8 Homework
   due on Mon., Mar 30:  4.9 Homework
   due on Wed., April 1:  5.1 Homework

   **Recitation on Thursday, April 2  quiz covering sec. 4.9, 5.1-5.2.**

   due on Fri., April 3:  5.2 Homework
   due on Mon., April 6:  5.3 Homework
   due on Wed., April 8:  5.4 Homework and 5.5 Homework

   **Recitation on Thursday, April 9  Test 4 covering sec. 4.7, 4.9 and 5.1-5.5.**

3.  To ask questions about the course material:

   **Help Sessions in 110MCH** - on Mon. and Wed. from 3 – 4:30 pm.

   **Dr. Kutter’s office hours in 111MCH (for individual discussions about**
grades, absences, course policies, etc.): Thurs 2:30 - 3:30 pm; 
F 10 - 11 am or by appointment.
Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 5:30 pm
Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Lecture Announcements: MAC2311 sec. 8-13 Wed., March 25
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture – Section 4.9
2. Upcoming dates
due on Wed., Mar 25 – 4.7 Homework

Recitation on Thursday, March 26 quiz covering sec. 4.7.
due on Fri., Mar 27: 4.8 Homework
due on Mon., Mar 30: 4.9 Homework
due on Wed., April 1: 5.1 Homework

Recitation on Thursday, April 2 quiz covering sec. 4.9, 5.1-5.2.
due on Fri., April 3: 5.2 Homework
due on Mon., April 6: 5.3 Homework
due on Wed., April 8: 5.4 Homework and 5.5 Homework

Recitation on Thursday, April 9 Test 4 covering sec. 4.7, 4.9 and 5.1-5.5.

3. To ask questions about the course material:

Help Sessions in 110MCH - on Mon. and Wed. from 3 – 4:30 pm.

Dr. Kutter’s office hours in 111MCH (for individual discussions about grades, absences, course policies, etc.): Thurs 2:30 - 3:30 pm; 
F 10 - 11 am or by appointment.

Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 5:30 pm
Lecture Announcements: MAC2311 sec. 8-13 Mon., March 23
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture – discuss remaining optimization examples and cover sec. 4.8 (Newton’s Method.)

Note: section 4.8 requires the use of calculators; therefore it will be covered in WebAssign homework only.
Section 4.8 will not be covered on Test 4 or the Final Exam.

2. Upcoming dates

   due on Wed., Mar 25 – 4.7 Homework
Recitation on Thursday, March 26 quiz covering sec. 4.7.
   due on Fri., Mar 27: 4.8 Homework
due on Mon., Mar 30: 4.9 Homework
due on Wed., April 1: 5.1 Homework
Recitation on Thursday, April 2 quiz covering sec. 4.9, 5.1-5.2.
   due on Fri., April 3: 5.2 Homework
due on Mon., April 6: 5.3 Homework
due on Wed., April 8: 5.4 Homework and 5.5 Homework
Recitation on Thursday, April 9 Test 4 covering sec. 4.7, 4.9 and 5.1-5.5.

3. To ask questions about the course material:

Help Sessions in 110MCH - on Mon. and Wed. from 3 – 4:30 pm.

Dr. Kutter’s office hours in 111MCH (for individual discussions about grades, absences, course policies, etc.): Thurs 2:30 - 3:30 pm;
F 10 - 11 am or by appointment.

Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm
Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50
Lecture Announcements:  MAC2311 sec. 8-13   Fri., March 20
Instructor:  Dr. Kutter
Office: 111 MCH         email:  kutter@math.fsu.edu
Homepage:  http://www.math.fsu.edu/~kutter

1. **Today in Lecture** – finish sec. 4.7 (Optimization)

2. **Upcoming dates**
   - due on Wed., Mar 25 – 4.7 Homework
   - Recitation on Thursday, March 26 quiz covering sec. 4.7.
   - due on Fri., Mar 27:  4.8 Homework
   - due on Mon., Mar 30:  4.9 Homework
   - due on Wed., April 1:  5.1 Homework
   - Recitation on Thursday, April 2 quiz covering sec. 4.9, 5.1-5.2.
   - due on Fri., April 3:  5.2 Homework
   - due on Mon., April 6:  5.3 Homework
   - due on Wed., April 8:  5.4 Homework and 5.5 Homework
   - Recitation on Thursday, April 9 Test 4 covering sec. 4.7, 4.9 and 5.1-5.5.

3. To ask questions about the course material:

   **Help Sessions in 110MCH** - on Mon. and Wed. from 3 – 4:30 pm.

   **Dr. Kutter’s office hours in 111MCH** *(for individual discussions about grades, absences, course policies, etc.):* Thurs 2:30 - 3:30 pm;
F 10 - 11 am  or by appointment.

   **Ms. Acar** (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

   **Ms. Valdes** (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

4. The **Final Exam** for MAC2311 sec 8-10 *(lecture at 12:20 pm)* will be given on  **Thursday, April 30 from 10 – 12 noon** in 101LOV
The Final Exam for MAC2311 sec 11-13 (lecture at 1:25 pm) will be given on Friday, May 1 from 10 – 12 noon in 101LOV.

Please see me – Jacob Sanchez
Lecture Announcements: MAC2311 sec. 8-13 Wed., March 18
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture  – Review for Test 3
   Friday – finish sec. 4.7 (Optimization)
   • The Recitation Quiz given on March 5 and homework graphs are available to be picked up at the end of lecture today (if you have not already.)
   • Check Keys (if you have not already) on Bb under: “From Ms. Acar” or “From Ms. Valdes” (for recitation quizzes) and “From Dr. Kutter” (for homework graphs and “extra examples/homework” in the partial notes.)

2. Test 3 covering section 3.9-3.10 and 4.1-4.5 will be given in recitation class on Thursday, March 19.
   The following formulas will be provided on Tests 3 and 4:

   ![Formulas for Sphere, Cylinder, and Cone]

3. To ask questions about the course material:

   Help Sessions in 110MCH - on Mon. and Wed. from 3 – 4:30 pm.

   Dr. Kutter’s office hours in 111MCH (for individual discussions about grades, absences, course policies, etc.): Thurs 2:30 - 3:30 pm; F 10 - 11 am or by appointment.
Welcome Back!

You may pick up your graded homework graphs today. The key has been posted in Bb under “From Dr. Kutter”.

1. Today in Lecture – finish sec. 4.5 and begin sec. 4.7.
   - Wed. – Review for Test 3
   - Friday – finish sec. 4.7

2. Upcoming dates
   - 4.5 Homework (be sure you are able to sketch graphs as in the 4.5 Practice by hand – this is an important section but not well suited to WebAssign submission.)
     Free graph paper can be printed using the link below:
     http://www.printfreegraphpaper.com/
   - Test 3 covering section 3.9-3.10 and 4.1-4.5 will be given in recitation class on Thursday, March 19.
     The following formulas will be provided:

     \[
     \begin{align*}
     V_{\text{Sphere}} &= \frac{4}{3}\pi r^3 \\
     A_{\text{Sphere}} &= 4\pi r^2 \\
     V_{\text{Cylinder}} &= \pi r^2 h \\
     A_{\text{Cylinder}} &= 2\pi r h \\
     V_{\text{Cone}} &= \frac{1}{3}\pi r^2 h \\
     A_{\text{Cone}} &= \pi r \sqrt{r^2 + h^2}
     \end{align*}
     \]

   - due on Wed., Mar 18

3. 4.7 Homework due on Wed., Mar 25

4. To ask questions about the course material:
   - Help Sessions in 110MCH – on Mon. and Wed. from 3 – 4:30 pm.
   - Dr. Kutter’s office hours in 111MCH (for individual discussions about grades, absences, course policies, etc.): Thurs 2:30 - 3:30 pm;
F 10 - 11 am or by appointment.

**Ms. Acar** (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

**Ms. Valdes** (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Please see me – Jacob Sanchez

Test 3 will be given in Recitation Class on Thursday, March 19. The following sections will be covered. (Nothing from sec. 3.11 or 4.6.)

*Section 3.9 Related Rate:* Be able to set up and solve related rate problems. Remember that when a quantity is “changing” at a rate that is the derivative with respect to $t$. Understand examples in lecture and the recitation group assignment, and work additional homework from partial notes and practice.

*Section 3.10 Linear approximations and differentials:* Be able to calculate the differential $dy$ and evaluate $dy$ for particular values of $x$ and $dx$; Be able to use linear approximations to estimate a number as in problems 23 – 28 on page 255.

*Section 4.1 Maximum and Minimum values:* Be able to find absolute extrema for a function $f$ using the graph of $f$; be able to find absolute extrema for a continuous function defined on a closed interval (using the closed interval method); be able to find critical numbers.

*Section 4.2 Rolle’s Theorem and the Mean Value Theorem:* Be able to determine whether required conditions are met and find value(s) for $c$ which satisfy the conclusion of Rolle’s Theorem and the Mean Value Theorem.

*Section 4.3 and 4.5 Graphing.* Be able to use $f$ to find domain, intercepts and asymptotes, to use $f'$ to find where $f$ is increasing/decreasing and local extrema, and to use $f''$ to find where the graph of $f$ is concave up/concave down and inflection points; be able to use this information to sketch the graph of a function. When sketching a graph, do not be concerned about scale; do be careful to label important points (extrema and inflection), to label asymptotes (if any) and to use a shape which matches the sign charts of $f'$ and $f''$ – increasing/decreasing/concave up/concave down. Additional practice is available in partial notes.
Section 4.4 Indeterminant Forms and L'Hospital’s Rule. Know when and how to use L'Hospital’s rule to evaluate limits, rewriting expressions if necessary. Additional practice is available in partial notes.

Lecture Announcements: MAC2311 sec. 8-13 Fri., March 6
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture – finish sec. 4.4 and cover sec. 4.5.

2. Upcoming dates

due on Fri., Mar 6: 4.3 Homework plus hand drawn graphs for problem number 5 and 6 (to be handed in before lecture class begins on March 6.)

March 9 – 14 Spring Break

due on Mon., Mar 16: 4.4 Homework

due on Wed., Mar 18: 4.5 Homework (be sure you are able to sketch graphs as in the 4.5 Practice by hand – this is an important section but not well suited to WebAssign submission.)

Test 3 covering section 3.9-3.11 and 4.1-4.5 and 4.7 will be given in recitation class on Thursday, March 19.

4. To ask questions about the course material:
Help Sessions in 110MCH - on Mon. and Wed. from 3 – 4:30 pm.

Dr. Kutter’s office hours in 111MCH (for individual discussions about grades, absences, course policies, etc.): Thurs 10 – 11 am and 12:45-1:45 pm (this week only); or by appointment.
Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Please see me – Jacob Sanchez

To prepare for Test 3, you should review your lecture class notes including homework examples (from the partial notes for sec. 3.9, 4.4 and 4.5), quizzes and WebAssign graded Homework. Work additional problems similar to those seen in lecture examples, quizzes and homework from the text (especially graphing problems) and WebAssign “Practice” for the sections below in order to attain a level of mastery required to do well on Test 3.

Section 3.9 Related Rate:  Be able to set up and solve related rate problems.

Section 3.10 Linear approximations and differentials:  Be able to calculate the differential dy and evaluate dy for particular values for x and dx; Be able to use linear approximations to estimate a number as in problems 23 – 28 on page 255.

Section 4.1 Maximum and Minimum values:  Be able to find absolute extrema for a function f using the graph of f;  be able to find absolute extrema for a continuous function defined on a closed interval (using the closed interval method); be able to find critical numbers.

Section 4.2 Rolle’s Theorem and the Mean Value Theorem:  Be able to determine whether required conditions are met and find value(s) for c which satisfy the conclusion of Rolle’s Theorem and the Mean Value Theorem.

Section 4.3 and 4.5 Graphing.  Be able to use f to find domain, intercepts and asymptotes, to use f’ to find where f is increasing/decreasing and local extrema, and to use f” to find where the graph of f is concave up/concave down and inflection points; be able to use this information to sketch the graph of a function.
Section 4.4 Indeterminate Forms and L’Hospital’s Rule. Know when and how to use L’Hospital’s rule to evaluate limits, rewriting expressions if necessary.

Section 4.7–Optimization. Be able to set up a function to be optimized, find and analyze critical numbers and answer the question asked.

Lecture Announcements: MAC2311 sec. 8-13  Wed., March 4
Instructor: Dr. Kutter
Office: 111 MCH    email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture – finish sec. 4.3 and cover sec. 4.4.

2. Upcoming dates

due on Wed., Mar 4: 4.2 Homework

Recitation on Thursday, March 5 covering sec. 4.1-4.4.

due on Fri., Mar 6: 4.3 Homework plus hand drawn graphs for problem number 5 and 6 (to be handed in before lecture class begins on March 6.)

March 9 – 14 Spring Break

due on Mon., Mar 16: 4.4 Homework

due on Wed., Mar 18: 4.5 Homework (be sure you are able to sketch graphs as in the 4.5 Practice by hand – this is an important section but not well suited to WebAssign submission.)

Test 3 covering section 3.9-3.11 and 4.1-4.5 and 4.7 will be given in recitation class on Thursday, March 19.

4. To ask questions about the course material:
Help Sessions in 110MCH - on Mon. and Wed. from 3 – 4:30 pm.

Dr. Kutter’s office hours in 111MCH (for individual discussions about grades, absences, course policies, etc.): Thurs 10 – 11 am and 12:45-1:45 pm (this week only); or by appointment.

Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Lecture Announcements: MAC2311 sec. 8-13 Mon., March 2
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture – finish sec. 4.2 and cover sec. 4.3.
Many of the problems in chapter 4 involve sketching a graph; for some sections you will be asked to submit a graph drawn by hand. When required, the hand drawn graphs will be due at the beginning of the lecture class on the associated due date for the WebAssign submitted homework.

Free graph paper can be printed using the link below:
http://www.printfreegraphpaper.com/

2. Upcoming dates

due on Mon., Mar 2: 4.1 Homework plus hand drawn graph for problem number 2 (to be handed it before lecture class begins on March 2.)
due on Wed., Mar 4: 4.2 Homework
Recitation on Thursday, March 5 covering sec. 4.1-4.4.
due on Fri., Mar 6: 4.3 Homework plus hand drawn graphs for problem number 5 and 6 (to be handed it before lecture class begins on March 6.)
March 9 – 14 Spring Break
due on Mon., Mar 16: 4.4 Homework
due on Wed., Mar 18: 4.5 Homework and 4.6 Homework
Test 3 covering section 3.9-3.11 and 4.1-4.5 and 4.7 will be given in recitation class on Thursday, March 19.

4. To ask questions:
Help Sessions in 110MCH (for help with course material) -
on Mon. and Wed. from 3 – 4:30 pm.

Dr. Kutter’s office hours in 111MCH (for individual discussions about grades, absences, course policies, etc.): Thurs 10 – 11 am and 12:45-1:45 pm (this week only); or by appointment.

Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm
Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Lecture Announcements: MAC2311 sec. 8-13  Fri., Feb. 27
Instructor:  Dr. Kutter
Office: 111 MCH  email:  kutter@math.fsu.edu
Homepage:  http://www.math.fsu.edu/~kutter

1. Today in Lecture – finish sec. 4.1 and cover sec. 4.2.
   Many of the problems in chapter 4 involve sketching a graph; for some sections you will be asked to submit a graph drawn by hand. When required, the hand drawn graphs will be due at the beginning of the lecture class on the associated due date for the WebAssign submitted homework.

   Free graph paper can be printed using the link below:
   http://www.printfreegraphpaper.com/

2. Upcoming dates

Recitation on Thursday, Feb. 26 covering sec. 3.9-3.11 and 4.1.
  Bring your lecture notes to recitation class.

due on Fri., Feb. 27:  3.11 Homework

due on Mon., Mar 2:  4.1 Homework plus hand drawn graph for problem number 2 (to be handed it before lecture class begins on March 2.)

due on Wed., Mar 4:  4.2 Homework

Recitation on Thursday, March 5 covering sec. 4.1-4.4.

due on Fri., Mar 6:  4.3 Homework plus hand drawn graphs for problem number 5 and 6 (to be handed it before lecture class begins on March 6.)

March 9 – 14 Spring Break

due on Mon., Mar 16:  4.4 Homework
due on Wed., Mar 18: 4.5 Homework and 4.6 Homework

Test 3 covering section 3.9-3.11 and 4.1-4.5 and 4.7 will be given in recitation class on Thursday, March 19.

4. To ask questions:

Help Sessions - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.

Dr. Kutter’s office (in 111MCH) hours: Thurs 2 - 4 pm (this week only) - no office hours on Friday this week; or by appointment.

Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Lecture Announcements: MAC2311 sec. 8-13 Wed., Feb. 25

Instructor: Dr. Kutter

Office: 111 MCH email: kutter@math.fsu.edu

Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture – finish sec. 4.1 and begin sec. 4.2.

Many of the problems in chapter 4 involve sketching a graph; for some sections you will be asked to submit a graph drawn by hand. When required, the hand drawn graphs will be due at the beginning of the lecture class on the associated due date for the WebAssign submitted homework.

Free graph paper can be printed using the link below:
http://www.printfreegraphpaper.com/

2. Upcoming dates

Recitation on Thursday, Feb. 26 covering sec. 3.9-3.11 and 4.1.

Bring your lecture notes to recitation class.

due on Fri., Feb. 27: 3.11 Homework
due on Mon., Mar 2: 4.1 Homework plus hand drawn graph for problem number 2 (to be handed it before lecture class begins on March 2.)
due on Wed., Mar 4: 4.2 Homework

Recitation on Thursday, March 5 covering sec. 4.1-4.4.
due on Fri., Mar 6: 4.3 Homework plus hand drawn graphs for problem number 5 and 6 (to be handed it before lecture class begins on March 6.)

March 9 – 14 Spring Break
due on Mon., Mar 16: 4.4 Homework
due on Wed., Mar 18: 4.5 Homework and 4.6 Homework
Test 3 covering section 3.9-3.11 and 4.1-4.5 and 4.7 will be given in recitation class on Thursday, March 19.

4. To ask questions:

Help Sessions - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.

Dr. Kutter’s office (in 111MCH) hours: Thurs 2 - 4 pm (this week only) - no office hours on Friday this week; or by appointment.

Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Lecture Announcements: MAC2311 sec. 8-13 Mon., Feb. 23

Instructor: Dr. Kutter

Office: 111 MCH email: kutter@math.fsu.edu

Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture – cover sec. 3.11 and begin sec. 4.1.

2. Upcoming dates

due on Mon., Feb. 23: 3.9 Homework

due on Wed., Feb. 25: 3.10 Homework

Recitation on Thursday, Feb. 26 covering sec. 3.9-3.11 and 4.1.

Bring your lecture notes to recitation class.

due on Fri., Feb. 27: 3.11 Homework

due on Mon., Mar 2: 4.1 Homework plus hand drawn graph for problem number 2 (to be handed it before lecture class begins on March 2.)

due on Wed., Mar 4: 4.2 Homework

Recitation on Thursday, March 5 covering sec. 4.1-4.4.

due on Fri., Mar 6: 4.3 Homework plus hand drawn graphs for problem number 5 and 6 (to be handed it before lecture class begins on March 6.)

March 9 – 14 Spring Break

due on Mon., Mar 16: 4.4 Homework

due on Wed., Mar 18: 4.5 Homework and 4.6 Homework

Test 3 covering section 3.9-3.11 and 4.1-4.5 and 4.7 will be given in
recitation class on **Thursday, March 19**.

4. **To ask questions:**

**Help Sessions** - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.

*Note: you do not need to stay for the entire help session; you are welcome to arrive late and/or leave early.*

**Dr. Kutter’s office (in 111MCH) hours:** Thurs 2:30 - 3:30 pm; F 2:30 – 3:30 (this week only) or by appointment.

**Ms. Acar** (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

**Ms. Valdes** (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

**Lecture Announcements:** MAC2311 sec. 8-13 **Fri., Feb. 20**

Instructor: **Dr. Kutter**

Office: 111 MCH email: kutter@math.fsu.edu

Homepage: [http://www.math.fsu.edu/~kutter](http://www.math.fsu.edu/~kutter)

1. **Today in Lecture** – cover sec. 3.10.

2. My office hours on **Friday** are changed to **2:30 – 3:30 pm** (for this week only.)

3. **Upcoming dates**

   - **due on Mon., Feb. 23:** 3.9 Homework
   - **due on Wed., Feb. 25:** 3.10 Homework

**Recitation on Thursday, Feb. 26** covering **sec. 3.9-3.11.**

   - **due on Fri., Feb. 27:** 3.11 Homework
   - **due on Mon., Mar 2:** 4.1 Homework plus hand drawn graph for problem number 2 (to be handed it before lecture class begins on March 2.)
   - **due on Wed., Mar 4:** 4.2 Homework

**Recitation on Thursday, March 5** covering **sec. 4.1-4.4.**

   - **due on Fri., Mar 6:** 4.3 Homework plus hand drawn graphs for problem number 5 and 6 (to be handed it before lecture class begins on March 6.)

   - **March 9 – 14 Spring Break**

   - **due on Mon., Mar 16:** 4.4 Homework
   - **due on Wed., Mar 18:** 4.5 Homework and 4.6 Homework

**Test 3** covering section 3.9-3.11 and 4.1-4.5 and 4.7 will be given in
recitation class on Thursday, March 19.

4. To ask questions:

Help Sessions - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.

Note: you do not need to stay for the entire help session; you are welcome to arrive late and/or leave early.

Dr. Kutter’s office (in 111MCH) hours: Thurs 2:30 - 3:30 pm; F 2:30 – 3:30 (this week only) or by appointment.

Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Lecture Announcements: MAC2311 sec. 8-13 Wed., Feb. 18

Instructor: Dr. Kutter

Office: 111 MCH email: kutter@math.fsu.edu

Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture – Review for Test 2

   Friday – cover sec. 3.10.

2. My office hours on Friday are changed to 2:30 – 3:30 pm (for this week only.)

3. Upcoming dates (WebAssign online homework assignments must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is begun in class):

   Test 2 in Recitation on Thursday, Feb. 19 covering sec. 3.1-3.7.

   due on Fri., Feb. 18: 3.8 Homework
   due on Mon., Feb. 23: 3.9 Homework
   due on Wed., Feb. 25: 3.10 Homework

   Quiz in Recitation on Thursday, Feb. 26 covering sec. 3.9-3.11.

4. To ask questions:

Help Sessions - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.

Note: you do not need to stay for the entire help session; you are
welcome to arrive late and/or leave early.

Dr. Kutter’s office (in 111MCH) hours: Thurs 2:30 - 3:30 pm; F 2:30 – 3:30 (this week only) or by appointment.

Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Lecture Announcements: MAC2311 sec. 8-13 Mon., Feb. 16
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture – cover sec. 3.9 – Related Rates
   Wednesday – Review for Test 2
   Friday – cover sec. 3.10.

2. You should begin on-line practice – start at the beginning of
   the practice and work every other problem starting at the
   beginning (usually the easiest and most straight forward
   problems) - as soon as a section is introduced in lecture class. After
   reaching an initial level of mastery, look at the corresponding section
   Homework assignment.

3. Upcoming dates (WebAssign online homework assignments
   must be completed by 11:30 am on the date due, which will typically
   be two class days after the corresponding section is begun in class):

due on Wed., Feb. 18: 3.8 Homework
Test 2 in Recitation on Thursday, Feb. 19 covering sec. 3.1-3.7.
due on Mon., Feb. 23: 3.9 Homework
due on Wed., Feb. 25: 3.10 Homework

Quiz in Recitation on Thursday, Feb. 26 covering sec. 3.9-3.11.
4. To ask questions:

Help Sessions - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.

Note: you do not need to stay for the entire help session; you are welcome to arrive late and/or leave early.

Dr. Kutter’s office (in 111MCH) hours: Thurs 2:30 - 3:30 pm; F 10 - 11 am or by appointment.

Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm
Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Lecture Announcements: MAC2311 sec. 8-13 Fri., Feb. 13
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture – finish sec. 3.7; cover sec. 3.8.

2. You should begin on-line practice – start at the beginning of the practice and work every other problem starting at the beginning (usually the easiest and most straight forward problems) - as soon as a section is introduced in lecture class. After reaching an initial level of mastery, look at the corresponding section Homework assignment.

3. Upcoming dates (WebAssign online homework assignments must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is begun in class):

due on Mon., Feb. 16: 3.7 Homework
due on Wed., Feb. 18: 3.8 Homework

Test 2 in Recitation on Thursday, Feb. 19 covering sec. 3.1-3.8.

due on Mon., Feb. 23: 3.9 Homework
due on Wed., Feb. 25: 3.10 Homework

Quiz in Recitation on Thursday, Feb. 26 covering sec. 3.9-3.11.
4. **To ask questions:**

**Help Sessions** - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.  
*Note: you do not need to stay for the entire help session; you are welcome to arrive late and/or leave early.*

**Dr. Kutter’s office (in 111MCH) hours:** Thurs 2:30 - 3:30 pm;  
F 10 - 11 am or by appointment.

**Ms. Acar** (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm  
**Ms. Valdes** (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

**Test 2** – given in recitation class on **Thursday, Feb. 19**

**Sections 3.1-3.4 and 3.6** – Know and be able to use all the formulas for calculating derivatives given in these sections including those which require multiple uses of one or more formulas.

**Section 3.3** – Limits involving trig functions: Be able to calculate limits using trigonometric functions and the formula \( \lim_{x \to 0} \frac{\sin x}{x} = 1 \).

**Section 3.5** – Inverse trigonometric functions – know the formula for the derivative of \( \arcsin x \) and \( \arctan x \), and be able to calculate derivatives involving the other inverse trig functions if given the formulas on page 214 of the text.

**Section 3.5** – Implicit differentiation – be able to use implicit differentiation to calculate \( \frac{dy}{dx} \) and \( \frac{d^2 y}{dx^2} \).

**Section 3.6** – Logarithmic differentiation: Be able to use this method to find derivatives of exponentials and other more complicated functions.

**Section 3.7** - Rates of change – If \( s \) is position then velocity is \( v=s' \) and acceleration is \( a=v''=s'' \).

Be able to find **tangent lines** and normal lines, to evaluate the derivatives and to find locations for **horizontal tangents** using any of the above
To prepare for Test 2, you should review lecture examples, the chain rule handout (given in recitation and now posted on Bb), quizzes (lecture and recitation) and WebAssign homework. Use the Practice assignments and the review assignment (posted on Bb) for additional drill/practice. Make sure you understand how to recognize when a particular formula or strategy is required, and if you are not sure you understand where the answer comes from – take time to ask.

Lecture Announcements: MAC2311 sec. 8-13 Wed., Feb. 11
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture – finish sec. 3.6; cover sec. 3.7
2. You should begin on-line practice – start at the beginning of the practice and work every other problem starting at the beginning (usually the easiest and most straightforward problems) - as soon as a section is introduced in lecture class. After reaching an initial level of mastery, look at the corresponding section Homework assignment.
3. Upcoming dates (WebAssign online homework assignments must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is begun in class):

  due on Wed., Feb. 11: 3.5 Homework
  Quiz in Recitation on Thursday, Feb. 12 covering sec. 3.4-3.7.
  due on Fri., Feb. 13: 3.6 Homework
  due on Mon., Feb. 16: 3.7 Homework
  due on Wed., Feb. 18: 3.8 Homework and 3.9 Homework
  Test 2 in Recitation on Thursday, Feb. 19 covering sec. 3.1-3.9.
4. To ask questions:

**Help Sessions** - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.  
*Note: you do not need to stay for the entire help session; you are welcome to arrive late and/or leave early.*

**Dr. Kutter’s office (in 111MCH) hours:** Thurs 2:30 - 3:30 pm;  
F 10 - 11 am or by appointment.

**Ms. Acar** (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm  
**Ms. Valdes** (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

**Lecture Announcements:**  MAC2311 sec. 8-13  Mon., Feb. 9  
Instructor: **Dr. Kutter**  
Office: 111 MCH  
email: **kutter@math.fsu.edu**  
Homepage: [http://www.math.fsu.edu/~kutter](http://www.math.fsu.edu/~kutter)

1. **Today in Lecture** – more examples from sec. 3.5; cover sec. 3.6
2. You should begin **on-line practice** – start at the beginning of the practice and work every other problem starting at the beginning (usually the easiest and most straightforward problems) - as soon as a section is introduced in lecture class. After reaching an initial level of mastery, look at the corresponding section Homework assignment.

3. **Upcoming dates** (WebAssign online homework assignments must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is begun in class):

   **due on Mon., Feb. 9:** 3.4 Homework **(this section is IMPORTANT)**  
   **due on Wed., Feb. 11:** 3.5 Homework

   **Quiz in Recitation on Thursday, Feb. 12** covering **sec. 3.4-3.7.**

   **due on Fri., Feb. 13:** 3.6 Homework  
   **due on Mon., Feb. 16:** 3.7 Homework  
   **due on Wed., Feb. 18:** 3.8 Homework and **3.9 Homework**

   **Test 2 in Recitation on Thursday, Feb. 19** covering **sec. 3.1-3.9.**
4. To ask questions:

**Help Sessions** - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.  
**Dr. Kutter’s office (in 111MCH) hours:** Thurs 2:30 - 3:30 pm;  
F 10 - 11 am or by appointment.

**Ms. Acar** (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm  
**Ms. Valdes** (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

**Lecture Announcements:** MAC2311 sec. 8-13 Fri., Feb. 6

**Instructor:** Dr. Kutter  
**Office:** 111 MCH  
**email:** kutter@math.fsu.edu  
**Homepage:** http://www.math.fsu.edu/~kutter

1. **Today in Lecture** – more examples from sec. 3.4; begin sec. 3.5
2. You should begin **on-line practice** – start at the beginning of the practice and work every other problem starting at the beginning (usually the easiest and most straight forward problems) - as soon as a section is introduced in lecture class. After reaching an initial level of mastery, look at the corresponding section Homework assignment.

3. **Upcoming dates** (WebAssign online homework assignments must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is begun in class):
   - due on Fri., Feb. 6: 3.3 Homework
   - due on Mon., Feb. 9: 3.4 Homework (this section is IMPORTANT)
   - due on Wed., Feb. 11: 3.5 Homework

Quiz in Recitation on Thursday, Feb. 12 covering sec. 3.4-3.7.
   - due on Fri., Feb. 13: 3.6 Homework
   - due on Mon., Feb. 16: 3.7 Homework
   - due on Wed., Feb. 18: 3.8 Homework and 3.9 Homework
Test 2 in Recitation on Thursday, Feb. 19 covering sec. 3.1-3.9.

4. To ask questions:

Help Sessions - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.

Dr. Kutter’s office (in 111MCH) hours: Thurs 2:30 - 3:30 pm; F 10 - 11 am or by appointment.

Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Lecture Announcements: MAC2311 sec. 8-13 Wed., Feb. 4

Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture – finish sec. 3.3 and begin sec. 3.4

2. You should begin on-line practice – start at the beginning of the practice and work every other problem starting at the beginning (usually the easiest and most straight forward problems) - as soon as a section is introduced in lecture class. After reaching an initial level of mastery, look at the corresponding section Homework assignment.

3. Upcoming dates (WebAssign online homework assignments must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is begun in class):

Quiz in Recitation on Thursday, Feb. 5 covering sec. 3.1-3.4.
due on Fri., Feb. 6: 3.3 Homework
due on Mon., Feb. 9: 3.4 Homework (this section is IMPORTANT)
due on Wed., Feb. 11: 3.5 Homework

Quiz in Recitation on Thursday, Feb. 12 covering sec. 3.4-3.7.
due on Fri., Feb. 13: 3.6 Homework
due on Mon., Feb. 16: 3.7 Homework
due on Wed., Feb. 18: 3.8 Homework and 3.9 Homework
Test 2 in Recitation on Thursday, Feb. 19 covering sec. 3.1-3.9.

4. To ask questions:

Help Sessions - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.
Dr. Kutter’s office (in 111MCH) hours: Thurs 2:30 - 3:30 pm;
F 10 - 11 am or by appointment.

Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm
Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50
Lecture Announcements: MAC2311 sec. 8-13 Mon., Feb. 2
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

2. Today in Lecture – finish sec. 3.2 and cover sec. 3.3

2. You should begin on-line practice – start at the beginning of
the practice and work every other problem starting at the
beginning (usually the easiest and most straight forward
problems) - as soon as a section is introduced in lecture class. After
reaching an initial level of mastery, look at the corresponding section
Homework assignment.

3. Upcoming dates (WebAssign online homework assignments
must be completed by 11:30 am on the date due, which will typically
be two class days after the corresponding section is begun in class):

due on Mon., Feb. 2: 3.1 Homework

due on Wed., Feb. 4: 3.2 Homework

Quiz in Recitation on Thursday, Feb. 5 covering sec. 3.1-3.4.

due on Fri., Feb. 6: 3.3 Homework

due on Mon., Feb. 9: 3.4 Homework (this section is IMPORTANT)

due on Wed., Feb. 11: 3.5 Homework

Quiz in Recitation on Thursday, Feb. 12 covering sec. 3.4-3.7.

due on Fri., Feb. 13: 3.6 Homework

due on Mon., Feb. 16: 3.7 Homework
due on Wed., Feb. 18:  3.8 Homework and 3.9 Homework

Test 2 in Recitation on Thursday, Feb. 19 covering sec. 3.1-3.9.

4. To ask questions:
Help Sessions - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.
Dr. Kutter’s office (in 111MCH) hours: Thurs 2:30 - 3:30 pm; F 10 - 11 am or by appointment.
Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm
Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50
Lecture Announcements: MAC2311 sec. 8-13  Fri., Jan. 30
Instructor: Dr. Kutter
Office: 111 MCH  email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

3. Today in Lecture – finish sec. 3.1 and cover sec. 3.2

2. You should begin on-line practice – start at the beginning of the practice and work every other problem starting at the beginning (usually the easiest and most straight forward problems) - as soon as a section is introduced in lecture class. After reaching an initial level of mastery, look at the corresponding section Homework assignment.

3. Upcoming dates (WebAssign online homework assignments must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is begun in class):

due on Mon., Feb. 2:  3.1 Homework
due on Wed., Feb. 4:  3.2 Homework

Quiz in Recitation on Thursday, Feb. 5 covering sec. 3.1-3.4.
due on Fri., Feb. 6:  3.3 Homework
due on Mon., Feb. 9:  3.4 Homework (this section is IMPORTANT)
due on Wed., Feb. 11:  3.5 Homework

Quiz in Recitation on Thursday, Feb. 12 covering sec. 3.4-3.7.
due on Fri., Feb. 13:  3.6 Homework
due on Mon., Feb. 16:  3.7 Homework
due on Wed., Feb. 18:  3.8 Homework and 3.9 Homework

Test 2 in Recitation on Thursday, Feb. 19 covering sec. 3.1-3.9.

4. To ask questions:
   Help Sessions - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.
   Dr. Kutter’s office (in 111MCH) hours: Thurs 2:30 - 3:30 pm;
   F 10 - 11 am or by appointment.
   Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm
   Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Lecture Announcements: MAC2311 sec. 8-13 Wed., Jan. 28
Instructor: Dr. Kutter
Office: 111 MCH            email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

4. Today in Lecture – Review for Test 1
   Fri. Jan 30, finish sec. 3.1 and cover sec. 3.2

2. Upcoming dates (WebAssign online homework assignments
   must be completed by 11:30 am on the date due, which will typically
   be two class days after the corresponding section is begun in class):

due on Wed., Jan. 28:  2.8 Homework

on Thurs., Jan 29 - Test 1 given in Recitation Class
   covering sec. 2.1-2.3, 2.5-2.8.
   For Test 1 - No calculator or notes; scrap paper will be
   provided; bring pencils, eraser, and picture ID.

   due on Mon., Feb. 2:  3.1 Homework
   due on Wed., Feb. 4:  3.2 Homework

3. If you have any problems with WebAssign access: contact
   WebAssign support - call 800-955-8275 or go to:
4. To ask questions:

**Help Sessions** - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.

**Dr. Kutter’s office (in 111MCH) hours:** Thurs 2:30 - 3:30 pm; F 10 - 11 am or by appointment.

**Ms. Acar** (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm

**Ms. Valdes** (in 409-A MCH) Mon & Wed. 12:10-1:10pm; Tues. 12:50-1:50

**Lecture Announcements:** MAC2311 sec. 8-13 Mon., Jan. 26

Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

5. **Today in Lecture** – finish sec 2.8 and begin sec. 3.1.
   - **Wed. Jan 30**, Review for Test 1 – bring questions
   - **Fri. Jan 30**, finish sec. 3.1 and cover sec. 3.2

2. **Upcoming dates** (WebAssign online homework assignments must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is begun in class):

   - **due on Fri., Jan. 23:** 2.6 Homework
   - **due on Mon., Jan. 26:** 2.7 Homework
   - **due on Wed., Jan. 28:** 2.8 Homework

   on **Thurs., Jan 29** - **Test 1** given in Recitation Class covering **sec. 2.1-2.3, 2.5-2.8.**

   **For Test 1 - No calculator or notes; scrap paper will be provided; bring pencils, eraser, and picture ID.**

   - **due on Mon., Feb. 2:** 3.1 Homework
   - **due on Wed., Feb. 4:** 3.2 Homework

3. **If you have any problems with WebAssign access:** contact
WebAssign support - call 800-955-8275 or go to:
http://www.webassign.net/user_support/student/

4. To ask questions:

Help Sessions - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.

Dr. Kutter’s office (in 111MCH) hours: Thurs 2:30 - 3:30 pm;
F 10 - 11 am or by appointment.

Ms. Acar (in 402-J MCH) Tues. 3-4:30 pm and Wed. 2:30 – 4:00 pm
Ms. Valdes (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

Lecture Announcements: MAC2311 sec. 8-13 Fri., Jan. 23
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

6. Today in Lecture – cover sec. 2.7 and 2.8.
   Mon. Jan 28, cover sec. 3.1
   Wed. Jan 30, finish loose ends and review for Test 1 – bring questions
   Fri. Jan 30, cover sec. 3.2

2. Upcoming dates (WebAssign online homework assignments must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is begun in class):

due on Fri., Jan. 23: 2.6 Homework
due on Mon., Jan. 26: 2.7 Homework
due on Wed., Jan. 28: 2.8 Homework and 3.1 Homework

on Thurs., Jan 29 - Test 1 given in Recitation Class
covering sec. 2.1-2.3, 2.5-2.8, 3.1.

For Test 1 - No calculator or notes; scrap paper will be provided; bring pencils, eraser, and picture ID.
due on Wed., Feb. 4: 3.2 Homework
3. **If you have any problems with WebAssign access:** contact WebAssign support - call 800-955-8275 or go to: http://www.webassign.net/user_support/student/

4. **To ask questions:**

   **Help Sessions - in 110MCH on Mon. and Wed. from 3 – 4:30 pm.**

   **Dr. Kutter’s office (in 111MCH) hours:** Thurs 2:30 - 3:30 pm; F 10 - 11 am  or by appointment.

   **Ms. Acar** (in 402-J MCH) Tues. 3-4:30 pm and Thurs. 10:30-12 noon

   **Ms. Valdes** (in 409-A MCH) Mon&Wed. 12:10-1:10pm; Tues. 12:50-1:50

To prepare for Test 1, you should review your lecture class notes, your quizzes and your WebAssign graded Homework. Most students will need to do work additional problems (similar to those seen in lecture examples, quizzes and homework) from the WebAssign “Practice” for the sections below in order to attain a level of mastery required to do well on Test 1.

**Section 2.1** – Secant lines vs. tangent lines; average velocity vs. instantaneous velocity (numeric approach – using or creating a table of functional values)

**Section 2.2** – Finding limits given the graph of a function; graphing a function given limit information and a few functional values; determining infinite limits; vertical asymptotes.

**Section 2.3** – Calculating limits using limit laws – including the squeeze theorem.

**Section 2.5** – Determining where a function is continuous, left continuous, right continuous, discontinuous, types of discontinuities (removeable, jump, infinite); Intermediate Value Theorem

**Section 2.6** – Calculating limits at infinity - using graphs and using
the equation of the function; sketching a graph which satisfies limit conditions including limits at infinity; horizontal asymptotes

**Section 2.7 and 2.8** – Using the limit definition to find the derivative, interpret as slopes of tangents or instantaneous velocity; finding equations of tangent lines; using a graph to approximate a value of the derivative, using the graph of a function to sketch the graph of its derivative and vice-versa; differentiability.

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**Lecture Announcements:** MAC2311 sec. 8-13  Wed., Jan. 21
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. **Today in Lecture** – cover sec. 2.6.

2. Your **Recitation Class** will meet Thursday, Jan. 22. You will have an opportunity to ask questions, and afterwards you will take a quiz worth 10 points covering questions from **sec. 2.3 (especially squeeze theorem)** and **2.5 – 2.6**.

   *You may not ask for help with the particular problems on your graded WebAssign Homework, but you may ask about a similar problem from the text or associated Practice.*

3. **Upcoming dates** (WebAssign online homework assignments must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is begun in class):
   - **due on Wed., Jan. 21:** 2.5 Homework *(Last day of the trial period)*
   - **Quiz in Recitation on Thursday, Jan. 22 covering sec. 2.5-2.6.**
   - **due on Fri., Jan. 23:** 2.6 Homework
due on Mon., Jan. 26: 2.7 Homework

due on Wed., Jan. 28: 2.8 Homework and 3.1 Homework

on Thurs., Jan 29 - Test 1 given in Recitation Class covering sec. 2.1-2.3, 2.5-2.8, 3.1.

4. **To purchase access to WebAssign** (trial period ends today), please click the “WebAssign” button on your BlackBoard class. **If you have problems**: contact WebAssign support - call 800-955-8275 or go to: [http://www.webassign.net/user_support/student/](http://www.webassign.net/user_support/student/)

**Dr. Kutter’s office (in 111MCH) hours**: MW 3:00 – 4:30 pm; Thurs 2:30 - 3:30 pm; F 10 - 11 am or by appointment.

**Lecture Announcements**: MAC2311 sec. 8-13 Fri., Jan. 16

Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: [http://www.math.fsu.edu/~kutter](http://www.math.fsu.edu/~kutter)

**2. Today in Lecture** – finish sec. 2.5 and begin sec. 2.6.

   No Lecture Class on Monday, Jan. 19 – MLK holiday

2. Your **Recitation Class** will meet Thursday, Jan. 22. You will have an opportunity to ask questions on problems from sections 2.5-2.7, and afterwards you will take a quiz worth 10 points covering questions from sections 2.3 – 2.6.

   **You may not ask for help with the particular problems on your graded WebAssign Homework, but you may ask about a similar problem from the text or associated Practice.**

3. **Upcoming dates** (WebAssign online homework assignments must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is begun in class):

   (No class on Monday, Jan. 19 – MLK holiday)

   **due on Wed., Jan. 21**: 2.5 Homework (Last day of the trial period)
Quiz in Recitation on Thursday, Jan. 22 covering sec. 2.5-2.6.
due on Fri., Jan. 23: 2.6 Homework
due on Mon., Jan. 26: 2.7 Homework
due on Wed., Jan. 28: 2.8 Homework and 3.1 Homework

on Thurs., Jan 29 - Test 1 given in Recitation Class
covering sec. 2.1-2.3, 2.5-2.8, 3.1.

4. Begin textbook and/or on-line practice as soon as a section is introduced in lecture class.

Dr. Kutter’s office (in 111MCH) hours: MW 3:00 – 4:30 pm; Thurs 2:30 - 3:30 pm; F 10 - 11 am or by appointment.

Lecture Announcements: MAC2311 sec. 8-13 Wed., Jan. 14
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. Today in Lecture – finish sec. 2.3 and begin sec. 2.5.

2. Your Recitation Class will meet tomorrow, Jan. 15. You will have an opportunity to ask questions on problems from sections 2.1-2.3 and 2.5, and afterwards you will take a quiz worth 10 points covering questions from sections 2.1-2.3.

You may not ask for help with the particular problems on your graded WebAssign Homework, but you may ask about a similar problem from the text or associated Practice.

3. Upcoming dates (WebAssign online homework assignments must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is begun in class):
due on Wed., Jan. 14: 2.1 Homework and 2.2 Homework
Quiz in Recitation on Thursday, Jan. 15 covering sec. 2.1-2.3.
due on Fri., Jan. 16: 2.3 Homework
(No class on Monday, Jan. 19 – MLK holiday)
due on Wed., Jan. 21:  2.5 Homework
Quiz in Recitation on Thursday, Jan. 22 covering sec. 2.5-2.6.

4. You should begin on-line homework practice as soon as a section
is introduced in lecture class.

To get questions answered, go to:
Dr. Kutter’s office (in 111MCH) hours:  
MW  3:00 – 4:30 pm; 
Thurs  2:30 - 3:30 pm;  
F  10 - 11 am  
or by appointment.

Please come see me today:  
Parth Patel
or if you have any concerns about eligibility or schedule.
Lecture Announcements:  MAC2311 sec. 8-13  Mon., Jan. 12
Instructor:  Dr. Kutter
Office: 111 MCH  
email:  kutter@math.fsu.edu
Homepage:  http://www.math.fsu.edu/~kutter

1. If today is your first day of class, be sure to get an eligibility form.
Fill out the eligibility form and return it to me by the end of class
today. Get notes from a classmate or borrow my document camera
notes from section 2.1 and 2.2 covered in lecture last week. Read
the lecture announcements from last week’s classes.

2. Your Recitation Class will meet Thursday, Jan. 15.  
You will have
an opportunity to ask questions on problems from sections 2.1-2.3
and 2.5.
You may not ask for help with the particular problems on your
graded WebAssign Homework, but you may ask about a similar
problem from the text or associated Practice.
You can expect a quiz worth 10 points from sections 2.1-2.3.
IMPORTANT:  Check your class schedule for conflicts with your
recitation class; drop-add ends tonight at midnight.

3. Upcoming dates (WebAssign online homework assignments
must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is begun in class):

due on Wed., Jan. 14: 2.1 Homework and 2.2 Homework Quiz in Recitation on Thursday, Jan. 15 covering sec. 2.1-2.3.  
due on Fri., Jan. 16: 2.3 Homework (No class on Monday, Jan. 19 – MLK holiday)  
due on Wed., Jan. 21: 2.5 Homework Quiz in Recitation on Thursday, Jan. 22 covering sec. 2.5-2.6.

4. You should begin on-line homework practice as soon as a section is introduced in lecture class.

*To get questions answered, go to:*
Dr. Kutter’s office (in 111MCH) hours: MW 3:00 – 4:30 pm; Thurs 2:30 - 3:30 pm; F 10 - 11 am or by appointment.

The following students were dropped from this course for not attending the first day of class:

Samuel Faria  Jamar David Kimball

*If you added MAC2311 after being dropped as a no-show, you would not be dropped a second time for missing the first class.*

The following students’ names were turned in to be dropped from this course as not eligible:

Daniella Gomez

The following students need to see me today or they may be dropped from this course as not eligible:

Parth Patel  Kendall Adamkiewicz  Iman Awan  
Sarah Amiro  Nicole Beniato  Richard Fleming  
Daniel Narvaez  Ryan Hildebrandt  Kevin Manchено
If you have questions about this, or think that an error has been made, please see me today.

Lecture Announcements: MAC2311 sec. 8-13 Fri., Jan. 9
Instructor: Dr. Kutter
Office: 111 MCH email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. If today is your first day of class, be sure to get an eligibility form. Fill out the eligibility form and return it to me by the end of class today. Get notes from a classmate or borrow my document camera notes from section 2.1 covered in lecture on Wednesday. Read the lecture announcements from Wednesday’s class.

2. Your Recitation Class will meet each Thursday. Your Unit Tests will be given in recitation class. You can expect a short quiz or graded assignment in Recitation each week when there is no Unit Test scheduled. Recitation classes meet in either 106LOV or 307HCB at the time determined by your section.
   IMPORTANT: Check your class schedule for conflicts with your recitation class.

3. To access WebAssign, please click the “WebAssign” button on your BlackBoard class. If you have problems:
   1) try another browser
2) change the settings on your browser to allow third party cookies:
http://www.webassign.net/manual/student_guide/c_a_blackboard_3rd_party_cookies.htm
3) contact WebAssign support - call 800-955-8275 or go to:
http://www.webassign.net/user_support/student/
Do this today - your first on-line assignments are due on Monday, Jan. 12 at 11:30 am.

4. Upcoming dates (WebAssign online quizzes must be completed by 11:30 am on the date due, which will typically be two class days after the corresponding section is covered in lecture class):
due on Mon., Jan. 12:  Pre-Test for Calculus 1
due on Wed., Jan. 14:  2.1 Homework and 2.2 Homework
due on Fri., Jan. 16:  2.3 Homework
5. You should begin on-line homework practice as soon as a section is covered in lecture class.

To get questions answered, go to:
Dr. Kutter’s office (in 111MCH) hours:  MW  3:00 – 4:30 pm;
Thurs  2:30 - 3:30 pm;  F  10 - 11 am  or by appointment.

The following students were dropped from this course for not attending the first day of class:

Samuel Faria   Jamar David Kimball

If you added MAC2311 after being dropped as a no-show, you would not be dropped a second time for missing the first class.

The following students’ names were turned in to be dropped from this course as not eligible:

Daniella Gomez
The following students need to see me today or they may be dropped from this course as not eligible:

Sarah Amiro        Alysha Gilvary        Austin Trudeau
Nicole Beniato    Richard Fleming        Nikolas Goetzke
Daniel Narvaez   Sungsoo Ji               Ryan Alexander
Iman Awan         McKayla Lein            Kevin Mancheno
Corey Bastian    Ryan Hildebrandt        Parth Patel

If you have questions about this, or think that an error has been made, please see me today.
Instructor: Dr. Kutter
Office: 111 MCH          email: kutter@math.fsu.edu
Homepage: http://www.math.fsu.edu/~kutter

1. If you come in late, be sure to get an eligibility form. Eligibility forms are used to determine first day attendance. If you do not fill out and return an eligibility form by the end of class today, you may be dropped as a no-show.

2. If you are not currently registered for this class, you must use the on-line DROP/ADD to add it as seats become available. I cannot help you with this. I will be turning in names of no-shows and ineligible students to be dropped which will make seats available. Keep trying!

3. If you are unsure whether or not you are eligible for this class, come see me or Ms. Andrews in room 222 LOV.

4. Your Recitation Class will meet each Thursday (starting tomorrow!) Your Unit Tests will be given in recitation class. You can expect a short quiz or graded assignment in Recitation each week (after tomorrow) when there is no Unit Test scheduled. Recitation classes meet in either 106LOV or 307HCB at the time determined by your section.

In recitation tomorrow, you will work a printed version of the on-
line assignment “Pre-Test for Calculus 1”. The printed version used in recitation will be provided to you; the online WebAssign “Pre-Test for Calculus 1” is due on Monday (see upcoming dates below.)

IMPORTANT: Check your class schedule for conflicts with your recitation class.

You must attend the recitation section for which you are registered.

You may change sections only during DROP/ADD.

5. You are expected to begin working practice problems as posted in WebAssign as soon as a section is covered in lecture class; you will have an opportunity to ask questions during the next lecture class, and the corresponding (graded) homework assignment will typically be due at 11:30 am the following lecture day.

Upcoming assignments due next week are:
- on Mon., Jan. 12 - Pre-Test for Calculus 1 (due at 11:30 am - up to 5 submissions allowed; will be similar to recitation handout)
- on Wed., Jan. 14 - 2.1 homework & 2.2 homework (at 11:30 am)
- on Fri., Jan. 16 - 2.3 homework (at 11:30 am)

See the Bb link Assignments for more information.

6. Before our next lecture class on Friday:
   - Log into our blackboard class and read the information on the following links:
     - Textbook - it contains a lot of information about options for purchasing the required textbook

     WebAssign – Use the BlackBoard link to access on-line practice and graded homework assignments. Do not wait to log into WebAssign and take a look at the upcoming assignments due on Monday.

     You will receive a 2 week grace period to use WebAssign before purchasing (not refundable if you drop.) Use the
grace period (no not enter access code or credit card information) until after you are SURE that your schedule will not change.

* Mark Test dates on your calendar. Remember - there are no make-ups on tests or quizzes (see syllabus).

For help with: computer problems, call 644-4357(HELP)

WebAssign, email http://www.webassign.net/user_support/student/

MAC2311 - Calculus I  Spring Term 2015

Instructor: Dr. Mary Kutter

Instructors Homepage: http://www.math.fsu.edu/~kutter

e-mail: kutter@math.fsu.edu

First Day of Class: Wednesday, January 7.

Mandatory First Day Attendance -
Florida State has a mandatory first day attendance policy. Students who do not attend the first class meeting may be dropped by the department.

Lecture Class Meets each MWF
from 12:20 – 1:10 pm (sec. 8-10) or 1:25 – 2:15 pm (sec. 11-13)
in room 101LOV

Recitation Class Meets each Thursday as determined by the section in which you are enrolled. You must attend the recitation class for which you are registered. You may change sections only during DROP/ADD.
Further information about MAC2311 may be found using the buttons on the “course menu” in the Blackboard site for this course. Go to: http://campus.fsu.edu

Look for further class announcements to be posted at this URL throughout the term.