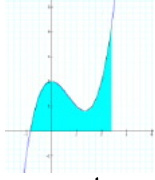


BMA Calculus



!Extra Help Signup!

Jump To Chapter:
2, 3, 4, 5, 6, 7, 8, 11, Limits Unit, Writing Project.

Math Reference, Syllabus, Class Rules,

Derivative Practice: A, B, C, D, E, F, G, H, I, J, K, L, M, N.

Integral Practice: A, B, C, D.

Video Lecture Notes: 1, 2, 3, 4, 5, 6, 7, 8, 11.

YourTry/ Handouts: Aug, 2, 3, 4, Nov, 2, 6, 7, 8, 11, Writing.

List of Videos

Work to be done before arriving at school:

- Complete PreCalculus and Calculus August Assignment
- Read Class Rules and Expectations
- If you will be arriving late to BMA, keep following the syllabus!

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9/1/14 M Ch. 1

In Class: Class Rules and Expectations; Start problems in 1.1

Homework:

- Watch Review of Functions (YouTube Link)
- Read 1.1
- Start problems in 1.1

9/2/14 T Ch. 1

In Class: Whole class discussion of domain and range, Small group problem solving 1.1.

Homework:

- Finish problems in 1.1
- Watch Review of Exponential Functions (YouTube Link)
- Read 1.2
- Start problems in 1.2

9/3/14 W Ch. 1

In Class: Whole class matching exponential functions to their graphs, Small group 1.2.

Homework:

- Finish problems in 1.2
- Watch Review of Shifting & Translating Functions (YouTube Link)
- Read 1.3
- Start problems in 1.3

9/5/14 F Ch. 1

In Class: Whole class discussion of shifts, stretches, symmetries and inverses.

Homework:

- Finish problems in 1.3
- Come to next class with questions on sections 1.1 through 1.3

9/8/14 M Ch. 1

In Class: Whole class questions on sections 1.1, 1.2, 1.3, Small group work.

Homework:

- Revise and Extend problems in 1.1, 1.2, 1.3
- Watch Log Rules, a review of logarithms and their rules (YouTube Link)
- Read 1.4
- Start problems in 1.4

9/9/14 T Ch. 1

In Class: Whole class exponent and log rule fiesta, Small group 1.4.

Homework:

- Finish problems in 1.4
- Watch Very quick review of trigonometry (YouTube Link)
- Read 1.5
- Start problems in 1.5

9/10/14 W Ch. 1

In Class: Whole class unit circle, Whole class problem solving 1.5.

Homework:

- Finish problems in 1.5
- Read 1.6
- Start problems in 1.6

9/12/14 F Ch. 1

In Class: Whole class recognizing graphs of common functions.

Homework:

- Revise and Extend problems in [1.4](#), [1.5](#), [1.6](#)
- Come to next class with questions!
- Last full night of Chapter 1, start wrapping it up!

9/15/14 M Ch. 1

In Class: Whole class questions on [1.4](#), [1.5](#), [1.6](#)

Homework:

- Watch the following Ch. 2 videos:
[A: Finding the slope of a curved line. \(YouTube Link\)](#)
[B: Definition of the derivative. \(YouTube Link\)](#)
[C: Developing the power rule for taking derivatives. \(YouTube Link\)](#)
[D: Example of taking the derivative of \$1/x\$. \(YouTube Link\)](#)
[E: Example showing how to take the derivative of \$\sin\(x\)\$. \(YouTube Link\)](#)
- Complete [YourTry 2c, 2d, 2e. \(Answers\)](#)
- Preview [Section 2.1](#)

9/16/14 T Ch. 2

In Class: Small Group work [Section 2.1](#)

Homework:

- Watch the following Ch. 2 videos:
[F: Example showing how to take derivatives of \$e^x\$ and \$a^x\$. \(YouTube Link\)](#)
[G: Comparing graphs of functions and their derivatives. \(YouTube Link\)](#)
[H: Graphing the 2nd derivative with the 1st derivative & \$f\(x\)\$. \(YouTube Link\)](#)
- Complete [YourTry 2f, 2g, 2h. \(Answers\)](#)
- Preview [Section 2.2](#)

9/17/14 W Ch. 2

In Class: Whole class work on Difference Quotient (Definition of the Derivative)

Homework:

- Watch the following Ch. 2 videos:
[I: Use a graph of \$f\(x\)\$ to construct a graph of the derivative \$f'\(x\)\$. \(YouTube Link\)](#)
[J: Using a graph of \$f'\(x\)\$ to construct a graph of \$f\(x\)\$. \(YouTube Link\)](#)
[K: The price of Oreos to generate a graph of the derivative. \(YouTube Link\)](#)
[L: A graph of the derivative in order to generate a graph of \$f\(x\)\$. \(YouTube Link\)](#)
- Complete [YourTry 2i, 2j. \(Answers\)](#)
- Preview [Section 2.3](#)
- Work problems in [Section 2.1](#)

9/19/14 F Ch. 2

In Class: Drawing squiggles and other squiggles that are the derivatives of the first squiggles.

Homework:

- Work problems in [Section 2.2](#)

9/22/14 M Ch. 2

In Class: Small group work.

Homework:

- Work problems in [Section 2.3](#)

9/23/14 T Ch. 2

In Class: Squiggles that are the second derivatives of other squiggles.

Homework:

- Bring your questions to next class!
- Work problems in [Section 2.4](#)

9/24/14 W Ch. 2

In Class: Whole class questions.

Homework:

- Work problems in [Section 2.5](#)

9/26/14 F Ch. 2

In Class: Small group work.

Homework:

- Wrap up work for Ch. 2! We'll have one day for questions after break.

=====

10/6/14 M Ch. 2

In Class: Whole class questions, recap, review of ch. 2 and preview of ch. 3

Homework:

- Polish off all work for Ch. 2.
- Watch the following Ch. 3 videos:
A: Derivative Rules: Constant Multiple, Addition, Subtraction. (YouTube Link)
B: Derivative Rules: The power rule. (YouTube Link)
C: What is e, beyond 2.71828..., the exponential number. (YouTube Link)
D: Derivatives rules: exponential functions. (YouTube Link)
- Complete *YourTry 3a/b. (Answers)*
- Read *Section 3.1*

10/7/14 T Ch. 3

In Class: Small group work on chapter 3.

Homework:

- Watch the following Ch. 3 videos:
E: Derivative Rules: The chain rule. (YouTube Link)
F: Derivative Rules: trigonometric functions. (YouTube Link)
G: Derivative Rules: Trigonometric Functions. (YouTube Link)
H: Derivative Rules: The Product Rule. (YouTube Link)
I: Derivative Rules: The quotient rule. (YouTube Link)
- Complete *YourTry 3d/e, 3f/g, 3h. (Answers)*
- Work problems in *Section 3.1*
- Read *Section 3.2*
- Preview *Ch. 3 In Class Worksheet A*

10/8/14 W Ch. 3

In Class: Whole class *worksheet on Power Rule and misc. derivative memorization.*

Homework:

- Watch the following Ch. 3 videos:
J: Derivative Rules: The tangent function. (YouTube Link)
K: Derivative Rules: Implicit Differentiation. (YouTube Link)
L: Derivative Rules: Inverse Functions. (YouTube Link)
M: Derivative Rules: All of them very fast. (YouTube Link)
N: Chain Rule fast method. (YouTube Link)
O: Product Rule very fast. (YouTube Link)
P: Deriving the Power Rule, Binomial Theorem (YouTube Link)
- Complete *YourTry 3k, 3L. (Answers)*
- Work problems in *Section 3.2*
- Read *Section 3.3*

10/10/14 F Ch. 3

In Class: Small Group Work.

Homework:

- Work problems in *Section 3.3*
- Read *Section 3.4*
- Preview *Ch. 3 In Class Worksheet B*

10/13/14 M Ch. 3

In Class: Whole class *worksheet on Chain Rule.*

Homework:

- Work problems in *Section 3.4*
- Read *Section 3.5*

10/14/14 T Ch. 3

In Class: Small Group Work

Homework:

- Work problems in *Section 3.5*
- Read *Section 3.6*
- Preview *Ch. 3 In Class Worksheet C*

10/15/14 W Ch. 3

In Class: Whole class *worksheet on Product Rule.*

Homework:

- Work problems in *Section 3.6*
- Read *Section 3.7*
- Bring your questions to next class!

10/17/14 F Ch. 3

In Class: Whole Class Questions.

Homework:

- Last full night on Chapter 3. Start wrapping it up.
- Work problems in [Section 3.7](#)

10/20/14 M Ch. 3

In Class: Small Group Work.

Homework:

- Polish off all work for Ch. 3.
- Watch the following Ch. 4 videos:
[A: Using Calculus to Find the Vertex of a Parabola. \(YouTube Link\)](#)
[B: Max, min and point of inflection of a cubic equation. \(YouTube Link\)](#)
[C: 1st & 2nd derivatives to find max, min & point of inflection. \(YouTube Link\)](#)
- Complete [YourTry 4a, 4b, 4c. \(Answers\)](#)
- Read [Section 4.1](#)
- Work problems in [Section 4.1](#)

10/21/14 T Ch. 4

In Class: Small Group Work

Homework:

- Watch the following Ch. 4 videos:
[D: Calculus on equations of motion with constant acceleration. \(YouTube Link\)](#)
[E: Applying Calculus to the Normal Distribution. \(YouTube Link\)](#)
[F: Business Calculus, how to make money knitting sweaters. \(YouTube Link\)](#)
- Complete [YourTry 4d, 4e, 4f. \(Answers\)](#)
- Read [Section 4.2](#)
- Work problems in [Section 4.2](#)

10/22/14 W Ch. 4

In Class: Whole Class Discussion: Global Versus Local Max and Min, Temp-Logger Intro

Homework:

- Watch the following Ch. 4 videos:
[G: Using calculus to find ideal dimensions of a can. \(YouTube Link\)](#)
[H: Using Calculus to find the quickest path in Orienteering. \(YouTube Link\)](#)
[I: Using Calculus on the Doppler Effect and the Cosine Effect. \(YouTube Link\)](#)
[J: Related Rates, how fast does a cone of gravel grow over time \(YouTube Link\)](#)
[K: Using Calculus on a moving shadow under a streetlight. \(YouTube Link\)](#)
- Complete [YourTry 4g. \(Answers\)](#)
- Read [Section 4.3](#)
- Work problems in [Section 4.3](#)
- Put [Temperature Loggers](#) in Freezer at dinner and take them out at breakfast. [Link to Spreadsheet.](#)

10/24/14 F Ch. 4

In Class: Small Group Work

Homework:

- Read [Section 4.4](#)
- Work problems in [Section 4.4](#)
- Download data from [Temperature Loggers](#) at dinner. Distribute data.

10/27/14 M Ch. 4

In Class: Analyze [Temperature Logger](#) Data, Whole Class Discussion: Classes of Functions.

Homework:

- Read [Section 4.5](#)
- Work problems in [Section 4.5](#)

10/28/14 T Ch. 4

In Class: Small Group Work

Homework:

- Read [Section 4.6](#)
- Work problems in [Section 4.6](#)

10/29/14 W Ch. 4

In Class: [Related Rates](#) Hands-on Activities

Homework:

- Work more problems in Chapter 4 Sections [4.1](#), [4.2](#), [4.3](#), [4.4](#), [4.5](#), [4.6](#)

10/31/14 F Ch. 4

In Class: Small Group Work, Preview the [November Assignment](#)

Homework:

- Watch the [set-up video for the November Assignment](#) if you were not in class ([YouTube Link](#))
 - Complete the [November Assignment](#)
 - Work more problems in Chapter 4 Sections [4.1](#), [4.2](#), [4.3](#), [4.4](#), [4.5](#), [4.6](#)
- =====

12/1/14 M Ch. 4, November Assignment

In Class: Whole class wrap-up & recap of November Assignment and Ch. 4.

Homework:

- Watch the following Ch. 5 videos:
[A: Introduction to Integration and the Integral. \(YouTube Link\)](#)
[B: Riemann Sums, Area under a curve, intro to the integral. \(YouTube Link\)](#)
[C: Riemann Sums and motion with constant acceleration. \(YouTube Link\)](#)
- Complete [YourTry 5a, 5b, 5c. \(Answers\)](#)

12/2/14 T Ch. 5

In Class: Introduction to Integration

Homework:

- Watch the following Ch. 5 videos:
[D: Fundamental Theorem of Calculus, Area under the curve. \(YouTube Link\)](#)
[E: Distance traveled by a ball accelerating to terminal velocity. \(YouTube Link\)](#)
[F: Preview of tricks and rules of integration. \(YouTube Link\)](#)
- Complete [YourTry 5d, 5e1, 5e2, 5f. \(Answers\)](#)

12/4/14 Th Ch. 5

In Class: Small Group Work

Homework:

- Watch the following Ch. 5 videos:
[G: Area under a curve manually with paper and scissors. \(YouTube Link\)](#)
[H: Using Integration to find the average value of a function. \(YouTube Link\)](#)
[I: Symmetry in integrals, negative area, odd & even functions. \(YouTube Link\)](#)
[J: A closer look at definite integration. \(YouTube Link\)](#)
- Complete [YourTry 5g, 5h, 5j. \(Answers\)](#)
- MUST BRING COMPUTER TO NEXT CLASS!

12/8/14 M Ch. 5

In Class: Whole Class doing Riemann Sums problems in spreadsheets. You must bring your computer to class!

Homework:

- Read [Section 5.1](#)
- Work problems in [Section 5.1](#)

12/9/14 T Ch. 5

In Class: Small Group Work.

Homework:

- Read [Section 5.2](#)
- Work problems in [Section 5.2](#)

12/11/14 Th Ch. 5

In Class: [Finding area with papers, scissors and scale.](#)

Homework:

- Read [Section 5.3](#)
- Work problems in [Section 5.3](#)
- Bring your questions to next class!

12/15/14 M Ch. 5

In Class: Whole class questions.

Homework:

- Read [Section 5.4](#)
- Work problems in [Section 5.4](#)

12/16/14 T Ch. 5

In Class: Whole class work on average value problems.

Homework:

- Wrap up work for Ch. 5

12/18/14 Th Ch. 5
In Class: Small Group Work

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12/29/14 M Ch. 6
In Class: Slope Field Day 1
Homework:

- Watch the following Ch. 6 videos:
A: Integrals, Anti-derivatives, Area under curves. (YouTube Link)
B: Slope fields used to construct anti-derivatives. (YouTube Link)
- Complete *YourTry 6a, 6b. (Answers)*

12/30/14 T Ch. 6
In Class: Slope Field Day 2; Followed by Small Group Work
Homework:

- Watch the following Ch. 6 videos:
C: Slope fields and anti-derivatives continued. (YouTube Link)
D: Finding integrals with spreadsheets, Riemann Sums. (YouTube Link)
E: Riemann Sums, area under the curve, continued. (YouTube Link)
F: Power Rule for finding anti-derivatives. (YouTube Link)
- Complete *YourTry 6d1, 6d2, 6e, 6f. (Answers)*

1/1/15 Th Ch. 6
In Class: 372nd Annual Anti-Derivative Festival and Parade.
Homework:

- Watch the following Ch. 6 videos:
G: Integrals found from memorized derivatives. (YouTube Link)
H: Super Basic Differential Equation Example. (YouTube Link)
I: A note about +C in the integral. (YouTube Link)
J: A look at internet-based Integral Calculators. (YouTube Link)
K: Notes about limits of integration, definite integrals. (YouTube Link)
- Complete *YourTry 6g, 6h, 6j, 6k. (Answers)*
- Read *Section 6.1*
- Work problems in *Section 6.1*

1/5/15 M Ch. 6
In Class: Small Group Work
Homework:

- Read *Section 6.2*
- Work problems in *Section 6.2*
- Look at the following four websites in preparation for next class:
Indefinite Integral Calculator: *Wolfram; Solve My Math*
Definite Integral Calculator: *Wolfram; Solve My Math*
- MUST BRING COMPUTER TO NEXT CLASS!

1/6/15 T Ch. 6
In Class: Riemann Sums Again, Online Integral Calculators: bring computers to class!

- Homework:
- Read *Section 6.3*
 - Work problems in *Section 6.3*
 - Bring questions to next class!

1/8/15 Th Ch. 6
In Class: Whole Class Questions
Homework:

- Read *Section 6.4*
- Work problems in *Section 6.4*
- Last full night on Chapter 6!

1/12/15 M Ch. 6
In Class: Last day on Chapter 6, Small Group Work.
Homework:

- Watch the following Ch. 7 videos:
A: Introduction to Integration By Substitution (YouTube Link)
B: Integration by Substitution Worked Examples (YouTube Link)

- [C: Common Mistake in Integration by Substitution \(YouTube Link\)](#)
[D: Advanced example of Integration by Substitution \(YouTube Link\)](#)
[E: Introduction to Integration by Parts \(YouTube Link\)](#)
[F: Integration by Parts worked examples \(YouTube Link\)](#)
• Complete [YourTry 7a, 7b, 7c, 7d, 7e, 7f. \(Answers\)](#)

1/13/15 T Ch. 7

In Class: Whole Class Integration by Substitution Day 1 of 2

Homework:

- Watch the following Ch. 7 videos:
[G: Integration by Parts "circular" example \(YouTube Link\)](#)
[H: Intro to Integration by Partial Fractions \(YouTube Link\)](#)
[I: Integration by Partial Fractions Examples \(YouTube Link\)](#)
[J: More Integration by Partial Fractions rules. \(YouTube Link\)](#)
- Complete [YourTry 7g, 7h, 7i. \(Answers\)](#)

1/15/15 Th Ch. 7

In Class: Whole Class Integration by Parts Day 1 of 2

Homework:

- Watch the following Ch. 7 videos:
[K: Intro to Integration by Trigonometric Substitution \(YouTube Link\)](#)
[L: Integration by Trigonometric Substitution Examples \(YouTube Link\)](#)
[M: Advanced Integration by Trig Substitution \(YouTube Link\)](#)
[N: Intro to Improper Integrals \(YouTube Link\)](#)
[O: Online, Web-based Integral Calculators \(YouTube Link\)](#)
[P: Improper Integrals, Singularities Hidden In Limits. \(YouTube Link\)](#)
- Complete [YourTry 7k, 7L/m, 7n, 7o. \(Answers\)](#)

1/19/15 M Ch. 7

In Class: Small Group Work

Homework:

- Read [Section 7.1](#)
- Work problems in [Section 7.1](#)

1/20/15 T Ch. 7

In Class: Whole Class Integration by Trigonometric Substitution

Homework:

- Read [Section 7.2](#)
- Work problems in [Section 7.2](#)

1/22/15 Th Ch. 7

In Class: Whole Class Improper Integrals Day 1 of 2

Homework:

- Read [Section 7.3](#)
- Work problems in [Section 7.3](#)

1/26/15 M Ch. 7

In Class: Small Group Work

Homework:

- Read [Section 7.4](#)
- Work problems in [Section 7.4](#)

1/27/15 T Ch. 7

In Class: Whole Class Integration by Substitution Day 2 of 2

Homework:

- Read [Section 7.7](#)
- Work problems in [Section 7.7](#)

1/29/15 Th Ch. 7

In Class: Whole Class Integration by Parts Day 2 of 2

Homework:

- Read [Section 7.8](#)
- Work problems in [Section 7.8](#)

2/2/15 M Ch. 7

In Class: Whole Class Improper Integrals Day 2 of 2

Homework:

- Watch the following Ch. 8 videos:
A: Finding the area enclosed by two curves (YouTube Link)
B: Using integration to derive the volume of a sphere (YouTube Link)
C: Using integration to derive the volume of an ellipsoid (YouTube Link)
- Complete *YourTry 8a, 8b, 8c. (Answers)*

2/3/15 T Ch. 8

In Class: *Curve Length Hands-On Activity*

Homework:

- Watch the following Ch. 8 videos:
D: Advanced: deriving the area of an ellipse (YouTube Link)
E: Calculating the length of a curve (YouTube Link)
F: Calculating the surface area of a revolved function (YouTube Link)
G: Disk Method, volume of a revolved function $f(x)$ around x (YouTube Link)
- Start work on *Section 8.2 Worksheet*.

2/5/15 Th Ch. 8

In Class: *Disk Method Hands-On Activity Link To Google-Spreadsheet*

Homework:

- Watch the following Ch. 8 videos:
H: Shell Method, volume of a revolved function $f(x)$ around y (YouTube Link)
I: Converting between rectangular and polar coordinates (YouTube Link)
J: Area in polar coordinates (YouTube Link)
K: Curve length in polar coordinates (YouTube Link)
- Complete *YourTry 8i1, 8i2, 8j, 8k. (Answers)*

2/9/15 M Ch. 8

In Class: Whole Class Problem Solving: Disk Method

Homework:

- Read *Section 8.1*
- Work problems in *Section 8.1*

2/10/15 T Ch. 8

In Class: *Shell Method Hands-On Activity Link To Google-Spreadsheet*

Homework:

- Read *Section 8.2*
- Work through *Section 8.2 Worksheet in Your Try*
- Work problems in *Section 8.2*

2/12/15 Th Ch. 8

In Class: Whole Class Problem Solving: Shell Method

Homework:

- Work through *Section 8.2 Worksheet in Your Try*
- Work problems in *Section 8.2*

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2/23/15 M Ch. 8

In Class: Whole Class Problem Solving: Surface Area of Revolved Function

Homework:

- Give a good try at doing some problems from sections: *8.3, 8.4, 8.5*.

2/24/15 T Ch. 8

In Class: Small Group Work

Homework:

- Give a good try at doing some problems from sections: *8.6, 8.7, 8.8*.

2/26/15 Th Ch. 8

In Class: Small Group Work

Homework:

- Watch the following Ch. 11 videos:
A: Overview of Differential Equations and their solutions (YouTube Link)
B: Slope Fields applied to Differential Equations (YouTube Link)
C: Computer Generated Slope Fields (YouTube Link)
- Complete *YourTry 11a, 11b, 11c. (Answers)*

3/2/15 M Ch. 11

In Class: Extremely Basic Differential Equations, and Exponential Functions.

Homework:

- Watch the following Ch. 11 videos:
D: Euler's Method of solving Diff. Eq.'s using a spreadsheet (YouTube Link)
E: Separable Differential Equations (YouTube Link)
F: A note on domain and range in Differential Equations (YouTube Link)
- Complete *YourTry 11d, 11e. (Answers)*

3/3/15 T Ch. 11

In Class: Slope Field Revisited Day 1

Homework:

- Watch the following Ch. 11 videos:
G: First Order Linear Differential Equations (YouTube Link)
H: Second Order Homogeneous Linear Differential Equations (YouTube Link)
I: 2nd Order Non-Homogeneous Linear Differential Equations (YouTube Link)
- Complete *YourTry 11g, 11h, 11i. (Answers)*
- Read *Section 11.1*
- Work problems in *Section 11.1*
- BRING YOUR COMPUTER TO NEXT CLASS!

3/5/15 Th Ch. 11

In Class: Euler's Method Day 1 (*Link to Spreadsheet*)

Homework:

- Read *Section 11.2*
- Work problems in *Section 11.2*

3/9/15 M Ch. 11

In Class: Separable Differential Equations

Homework:

- Read *Section 11.3*
- Work problems in *Section 11.3*

3/10/15 T Ch. 11

In Class: Small Group Work

Homework:

- Read *Section 11.4*
- Work problems in *Section 11.4*

3/12/15 Th Ch. 11

In Class: Slope Fields Day 2

Homework:

- Give a good try at doing some problems from sections: *11.5, 11.6, 11.7.*
- BRING YOUR COMPUTER TO NEXT CLASS!

3/16/15 M Ch. 11

In Class: Euler's Method Day 2 (*Link to Spreadsheet*)

Homework:

- Read *Section 11.10*
- Work problems in *Section 11.10*

3/17/15 T Ch. 11

In Class: First Order Differential Equations

Homework:

- Read *Section 11.11*
- Work problems in *Section 11.11*

3/19/15 Th Ch. 11

In Class: Second Order Differential Equations

Homework:

- Read *Section 1.7*
- Work problems in *Section 1.7*

3/23/15 M Limits: Section 1.7

In Class: Continuity

Homework:

- Read *Section 1.8*
- Work problems in *Section 1.8*

3/24/15 T Limits: Section 1.8

In Class: Limits

Homework:

- Read [Section 2.6](#)
- Work problems in [Section 2.6](#)

3/26/15 Th Limits: Section 2.6

In Class: Differentiability

Homework:

- Read [Section 4.7](#)
- Work problems in [Section 4.7](#)

3/30/15 M Limits: Section 4.7

In Class: L'Hopital's Rule

Homework:

- Read [Section 7.5](#)
- Work problems in [Section 7.5](#)

3/31/15 T Limits: Section 7.5

In Class: Small Group Work

Homework:

- Read [Section 7.6](#)
- Work problems in [Section 7.6](#)

4/2/15 Th Limits: Section 7.6

In Class: Small Group Work

Homework:

- Preview *"Tables, Graphs, Formulas and Words"* assignment.
- You MUST download the latest version of [OpenOffice](#) before next class.
- You must create an account at [CircuitLab.com](#) before next class.

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4/20/15 M [Integrating Tables, Graphs, Formulas and Words](#)

In Class: Introduction, setup and data collection.

Homework:

- Write up and expand class notes into lab journal.
- Work on understanding the components of the circuit and the physics involved
- Graph the data along with a trend-line, a formula and an R-squared value.

4/21/15 T [Integrating Tables, Graphs, Formulas and Words](#)

In Class: Graphing data; Discussion of the Physics; Discussion of Formulas.

Homework:

- Write up and expand class notes into lab journal.
- Complete graph with all bells and whistles: title, labeled axes, trend-line, equation, trend-line, etc.
- Work on data-table to be included in your paper.

4/22/15 W [Integrating Tables, Graphs, Formulas and Words](#)

In Class: Discussion of Formulas; Another round of data collection.

Homework:

- Write up and expand class notes into lab journal.
- Complete graph of second set of data.
- Check if experimental values match predicted values.
- Work on understanding the connections between the Physics and the Calculus, the formulas and the graphs. Start putting these connections into words.

4/24/15 F [Integrating Tables, Graphs, Formulas and Words](#)

In Class: Details: Do our results match predictions? Getting the Physics and Calculus straight in our heads.

Homework:

- Create an outline for the paper including: what you need to say in writing, what equations you need to include, what diagrams, graphs and pictures you need.

[UndergradWritingExample1.pdf](#)

[UndergradWritingExample2.pdf](#)

[UndergradWritingExample3.pdf](#)

4/27/15 M Integrating Tables, Graphs, Formulas and Words

In Class: Create an outline for the paper; Taking pictures.

Homework:

- Create first draft of paper to share with peers.
- MUST bring TWO copies of your first draft to next class.

4/28/15 T Integrating Tables, Graphs, Formulas and Words

In Class: Peer editing of first draft in triads; Discussion of topic sentences.

Homework:

- Keep working on drafts.

4/29/15 W Integrating Tables, Graphs, Formulas and Words

In Class: Bootcamp for Equation editor, Graphing, Diagrams, Pictures and Tables.

Homework:

- MUST bring TWO copies of your current draft to next class.

5/1/15 F Integrating Tables, Graphs, Formulas and Words

In Class: Peer editing next draft in triads.

Homework:

- Work on paper.
- Group A must get draft to DI by Sunday Brunch.
- Group B must get draft to DI by next class.

5/4/15 M Integrating Tables, Graphs, Formulas and Words

In Class: Group A meets individually with DI. Keep writing otherwise.

Homework:

- Group C must get draft to DI by next class.
- Keep hammering it out.

5/5/15 T Integrating Tables, Graphs, Formulas and Words

In Class: Group B meets individually with DI. Keep writing otherwise.

Homework:

- Keep striving to make the paper better and more integrated.

5/6/15 W Integrating Tables, Graphs, Formulas and Words

In Class: Group C meets individually with DI. Keep writing otherwise.

Homework:

- Final drafts due next class.

5/8/15 F Integrating Tables, Graphs, Formulas and Words

In Class: Final drafts due. Post assignment debrief.

Homework: TBD

5/11/15 M Advanced Topics TBD

In Class: TBD

Homework: TBD

5/12/15 T Advanced Topics TBD

In Class: TBD

Homework: TBD

5/13/15 W Advanced Topics TBD

In Class: TBD

Homework: TBD

5/15/15 F Advanced Topics TBD

In Class: TBD

Homework: TBD

5/18/15 M Presumed Senior Trip

In Class: TBD if there are students in class.

Homework: TBD if there are students in class.

5/19/15 T Presumed Senior Trip

In Class: TBD if there are students in class.

Homework: TBD if there are students in class.

5/20/15 W Presumed Senior Trip
In Class: TBD if there are students in class.
Homework: TBD if there are students in class.

5/22/15 F Presumed Senior Trip
In Class: TBD if there are students in class.
Homework: TBD if there are students in class.

5/26/15 T Last Week, presumably no class for seniors.
In Class: TBD if there are students in class.
Homework: TBD if there are students in class.

5/28/15 Th Last Week, presumably no class for seniors.
In Class: TBD if there are students in class.
Homework: TBD if there are students in class.
