Third Quarter Assignments

BHS/SA AP Calculus AB (2nd pd)

Wed., Jan. 8 §6.3	***Goals*** ***Assignment***	Use both parts of the Fundamental Theorem of Calculus. **§6.3** 21, 27, 29, 35, 37, 55, AP4, AP11
Thurs., Jan. 9 §6.3	***Goals*** ***Assignment***	Understand how accumulation problems are tested on the AP Calculus exam. **Accumulation** problems
Fri., Jan. 10 §6.3	***Goals*** ***Assignment***	Use both parts of the Fundamental Theorem of Calculus. **§6.3** AP8, AP10, AP12
Mon., Jan. 13 §6.4	***Goals*** ***Vocabulary*** ***Assignment***	Use properties of definite integrals. order of integration, additivity **§6.4** 1, 2, 3, 7, 9, 15
Tues., Jan. 14 §6.4; **AP Quiz 4**	***Goals*** ***Vocabulary*** ***Assignment***	Use properties of definite integrals. Find the average value of a function. Mean Value Theorem for Integrals **§6.4** 65, 75, 89, AP1, AP4, AP5, AP6, AP9, AP13; **AP Quiz 4**
Thurs., Jan. 16 §6.4, 6.5	***Goals*** ***Vocabulary*** ***Assignment***	Find the average value of a function. Solve problems involving kinematics. Use *u*-substitution to reverse the chain rule. *u*-substitution **§6.4** 85, AP11, AP15; **§6.5** 23, 27, 29, 35, 41, 49
Fri., Jan. 17 **Activity day** AP progress check	***Goals*** ***Assignment***	Evaluate integrals. Use the Fundamental Theorem of Calculus. AP Classroom Unit 6 Progress Check: MCQ part A to be worked on *in class* if you're not at an activity.
Tues., Jan. 21 §6.5	***Goals*** ***Assignment***	Use *u*-substitution to reverse the chain rule. **§6.5** 69, 71, 73, 103, 105
Thurs., Jan. 23 §6.5, 6.9	***Goals*** ***Assignment***	Use *u*-substitution to reverse the chain rule. Rewrite integrands using long division. **§6.5** AP4, AP5, AP8, AP9, AP12; **§6.9** 47, 49, AP3, AP5
Fri., Jan. 24 §6.9	***Goals*** ***Vocabulary*** ***Assignment***	Rewrite integrands using completing the square. completing the square **§6.9** 5, 11, 51, AP1
Mon., Jan. 27 Review	***Goals*** ***Assignment***	Evaluate definite integrals and use them to solve problems. Study for the test.
Tues., Jan. 28 Review	***Goals*** ***Assignment***	Evaluate definite integrals and use them to solve problems. Study for the test.
Thurs., Jan. 30 **Test, Ch. 6**	***Goals*** ***Assignment***	Evaluate definite integrals and use them to solve problems. **Test, The Integral, both parts** A precalculus review worksheet is due next class.
Fri., Jan. 31 AP FR modules 3; Precalc review ws 5 due	**Precalc review worksheet 5 is due at the beginning of class. The fourth and final AP FR scoring module will be available on Schoology. I will compile FAQ over spring break if anyone asks questions.** ***Goals*** ***Assignment***	Understand how applying procedures and interpretation of expressions in context are tested on the AP Calculus exam. Do the **online survey** about what you learned from this AP free response module. The link will be on Schoology. Study for the test.
Mon., Feb. 3 §7.1	***Goals*** ***Vocabulary*** ***Assignment***	Verify solutions of differential equations. Find general and particular solutions of differential equations. differential equation, general solution, particular solution, order of a differential equation **§7.1** 3, 4, 15, 21, 31
Tues., Feb. 4 §7.1, 7.2	***Goals*** ***Vocabulary*** ***Assignment***	Verify solutions of differential equations. Find general and particular solutions of differential equations. separable differential equation, separation of variables **§7.1** AP1, AP2, AP3, AP4; **§7.2** 3, 7
Thurs., Feb. 6 §7.2	***Goals*** ***Assignment***	Solve separable differential equations. **§7.2** 5, 21, 27, AP1, AP2, AP5, AP6
Fri., Feb. 7 §7.3	***Goals*** ***Vocabulary*** ***Assignment***	Understand and solve problems involving slope fields. slope field, isocline **§7.3** 7, 13, 17, AP1, AP2
Mon., Feb. 10 §7.3	***Goals*** ***Assignment***	Understand and solve problems involving slope fields. **§7.3** 9, 18, AP3
Tues., Feb. 11 Review; **AP Quiz 5**	***Goals*** ***Assignment***	Solve simple differential equations. Understand and solve problems involving slope fields. **AP Quiz 5**; study for the quiz.
Thurs., Feb. 13 Review; **Quiz, Ch. 7**	***Goals*** ***Assignment***	Solve simple differential equations. Understand and solve problems involving slope fields. **Quiz, Differential Equations**

Fri., Feb. 14 **Activity day** AP progress check	***Goals*** ***Assignment***	Solve simple differential equations. Understand and solve problems involving slope fields. AP Classroom Unit 7 Progress Check: MCQ to be worked on *in class* if you're not at an activity.
Tues., Feb. 18 §8.1	***Goals*** ***Assignment***	Find the area between two curves. **§8.1** 7, 21, 61, AP5 For this entire unit, you should use your calculator to evaluate the appropriate integrals after setting them up except for AP problems without a graphing utility icon.
Thurs., Feb. 20 §8.1, 8.2	***Goals*** ***Vocabulary*** ***Assignment***	Find the area between two curves. Calculate the volumes of solids of revolution. solid of revolution, disk method **§8.1** AP3, AP4, AP5; **§8.2** 5, 13, AP1 Again, for this entire unit, you should use your calculator to evaluate the appropriate integrals after setting them up except for AP problems without a graphing utility icon.
Fri., Feb. 21 §8.2	***Goals*** ***Assignment***	Calculate the volumes of solids of revolution. **§8.2** 7, 31, 41. Evaluate the integrals with a calculator after you set them up.
Mon., Feb. 24 §8.2	***Goals*** ***Vocabulary*** ***Assignment***	Calculate the volumes of solids of revolution. washer method **§8.2** 9, 17, 19, 21, AP4. ***Note:*** for #9 and #19, you should evaluate the integrals with a calculator after you set them up.
Tues., Feb. 25 §8.2	***Goals*** ***Assignment***	Calculate volumes of solids of revolution. **§8.2** AP8, AP10
Thurs., Feb. 27 §8.4	***Goals*** ***Vocabulary*** ***Assignment***	Calculate volumes of solids with known cross-section. cross-section **§8.4** 9, 17, AP2, AP5, AP6, AP8abd. ***Note:*** For #9, only write the integrals; do not evaluate them.
Fri., Feb. 28 Review	***Goals*** ***Assignment***	Apply integration in a variety of contexts. Study for the test.
Mon., Mar. 3 Review; **AP Quiz 6**	***Goals*** ***Assignment***	Apply integration in a variety of contexts. **AP Quiz 6;** study for the test.
Tues., Mar. 4 **Quiz, Ch. 8**	***Goals*** ***Assignment***	Apply integration in a variety of contexts. **Quiz, Applications of the Integral** (this is the last thing that counts on the third quarter)
Thurs., Mar. 6 **AP MC no calculator practice exam**, Unit 1	***Goals*** ***Assignment***	Determine what Unit 1 (Limits and Continuity) topics you need to relearn for the AP exam. **Practice Exam, AP Calculus AB multiple choice section, *no* calculator; Unit 1 (Limits and Continuity)** worksheet
Fri., Mar. 7 Unit 1	***Goals*** ***Assignment***	Determine what Unit 1 (Limits and Continuity) topics you need to relearn for the AP exam. **Unit 1 (Limits and Continuity)** worksheet
Mon., Mar. 10 Unit 2; **AP Quiz 7**	***Goals*** ***Assignment***	Determine what Unit 2 (Differentiation: Definition and Fundamental Properties) topics you need to relearn for the AP exam. **AP Quiz 7; Unit 2 (Differentiation: Definition and Fundamental Properties)** worksheet
Tues., Mar. 11 Unit 2	***Goals*** ***Assignment***	Determine what Unit 2 (Differentiation: Definition and Fundamental Properties) topics you need to relearn for the AP exam. **Unit 2 (Differentiation: Definition and Fundamental Properties)** worksheet
Thurs., Mar. 13 **AP Free Response practice exam**	***Goals*** ***Assignment***	Determine the areas of AP Calculus that need the most review before the exam in May. **Practice Exam, AP Calculus Free Response Questions**
Fri., Mar. 14 **Activity day** **End of third quarter**	**Friday, March 14, is the last day of the third quarter. The last assignment that counts on the quarter is the quiz on Ch. 8.** (The entire review unit will count on the fourth quarter.) ***Goals*** ***Assignment***	 Determine the areas of AP Calculus that need the most review before the exam in May. Make a plan to improve your understanding of AP calculus topics