## **Third Quarter Assignments** IB/AP Calculus AB

Wed., Jan. 8	Goals	Use both parts of the Fundamental Theorem of Calculus.
§6.3	Assignment	<b>§6.3</b> 21, 27, 29, 35, 37, 55, AP4, AP11
Thurs., Jan. 9	Goals	Understand how accumulation problems are tested on the AP Calculus exam.
§6.3	Assignment	Accumulation problems
Fri., Jan. 10	Goals	Use both parts of the Fundamental Theorem of Calculus.
§6.3	Assignment	<b>§6.3</b> AP8, AP10, AP12
Mon., Jan. 13	Goals	Use properties of definite integrals.
§6.4	Vocabulary	order of integration, additivity
	Assignment	<b>§6.4</b> 1, 2, 3, 7, 9, 15
Tues., Jan. 14	Goals	Use properties of definite integrals. Find the average value of a function.
§6.4; <b>AP Quiz 4</b>	Vocabulary	Mean Value Theorem for Integrals
3 , , ,	Assignment	<b>§6.4</b> 65, 75, 89, AP1, AP4, AP5, AP6, AP9, AP13; <b>AP Quiz 4</b>
W-Th, Jan. 15-16	Goals	Find the average value of a function. Solve problems involving kinematics. Use <i>u</i> -substitution
§6.4, 6.5	00000	to reverse the chain rule.
30. 1, 0.5	Vocabulary	<i>u</i> -substitution
	Assignment	<b>§6.4</b> 85, AP11, AP15; <b>§6.5</b> 23, 27, 29, 35, 41, 49
Fri., Jan. 17	Goals	Evaluate integrals. Use the Fundamental Theorem of Calculus.
Activity day	Assignment	AP Classroom Unit 6 Progress Check: MCQ part A to be worked on <i>in class</i> if you're not at
AP progress check	Assignment	an activity.
Tues., Jan. 21	Goals	Use <i>u</i> -substitution to reverse the chain rule.
§6.5	Assignment	
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W-Th, Jan. 22-23	Goals	Use <i>u</i> -substitution to reverse the chain rule. Rewrite integrands using long division.
§6.5, 6.9	Assignment	<b>§6.5</b> AP4, AP5, AP8, AP9, AP12; <b>§6.9</b> 47, 49, AP3, AP5
Fri., Jan. 24	Goals	Rewrite integrands using completing the square.
§6.9	Vocabulary	completing the square
	Assignment	
Mon., Jan. 27	Goals	Evaluate definite integrals and use them to solve problems.
Review		Study for the test.
Tues., Jan. 28	Goals	Evaluate definite integrals and use them to solve problems.
Review	······	Study for the test.
W-Th, Jan. 29-30	Goals	Evaluate definite integrals and use them to solve problems.
Test, Ch. 6	Assignment	Test, The Integral, both parts
		An IB review worksheet is due next class.
Fri., Jan. 31		orksheet 5 is due at the beginning of class. The fourth and final AP FR scoring module will
AP FR modules 3; IB		on Schoology. I will be compiling an FAQ over spring break if anyone asks questions.
review ws 5 due	Goals	Understand how applying procedures and interpretation of expressions in context are tested on
		the AP Calculus exam.
	Assignment	Do the <b>online survey</b> about what you learned from this AP free response module. The link
3.6 D. 0		will be on Schoology. Study for the test.
Mon., Feb. 3	Goals	Verify solutions of differential equations. Find general and particular solutions of differential
§7.1		equations.
		differential equation, general solution, particular solution, order of a differential equation
	Assignment	<b>§7.1</b> 3, 4, 15, 21, 31
Tues., Feb. 4	Goals	Verify solutions of differential equations. Find general and particular solutions of differential
§7.1, 7.2		equations.
	Vocabulary	separable differential equation, separation of variables
	Assignment	<b>§7.1</b> AP1, AP2, AP3, AP4; <b>§7.2</b> 3, 7
W-Th, Feb. 5-6	Goals	Solve separable differential equations.
§7.2	Assignment	<b>§7.2</b> 5, 21, 27, AP1, AP2, AP5, AP6
Fri., Feb. 7	Goals	Understand and solve problems involving slope fields.
§7.3	Vocabulary	slope field, isocline
	Assignment	<b>§7.3</b> 7, 13, 17, AP1, AP2
Mon., Feb. 10	Goals	Understand and solve problems involving slope fields.
§7.3	Assignment	<b>§7.3</b> 9, 18, AP3
Tues., Feb. 11	Goals	Solve simple differential equations. Understand and solve problems involving slope fields.
Review; AP Quiz 5	Assignment	AP Quiz 5; study for the quiz.
W-Th, Feb. 12-13	Goals	Solve simple differential equations. Understand and solve problems involving slope fields.
Danis Onia Ch 7	Assignment	Quiz, Differential Equations
Review; Quiz, Ch. 7		Q

Fri., Feb. 14	Goals	Solve simple differential equations. Understand and solve problems involving slope fields.
Activity day	Assignment	AP Classroom Unit 7 Progress Check: MCQ to be worked on <i>in class</i> if you are not at an
AP progress check	Ü	activity.
Tues., Feb. 18	Goals	Find the area between two curves.
§8.1	Assignment	<b>§8.1</b> 7, 21, 61, AP5
	: 0	e unit, you should use your calculator to evaluate the appropriate integrals after setting them up
		P problems without a graphing utility icon
W-Th, Feb. 19-20	Goals	Find the area between two curves. Calculate the volumes of solids of revolution.
§8.1, 8.2	Vocabulary	solid of revolution, disk method
0 ,		<b>§8.1</b> 15, AP3, AP4; <b>§8.2</b> 5, 13, AP1
		is entire unit, you should use your calculator to evaluate the appropriate integrals after setting
		pt for AP problems without a graphing utility icon.
Fri., Feb. 21	Goals	Calculate the volumes of solids of revolution.
§8.2	Assignment	§8.2 7, 31, 41. Evaluate the integrals with a calculator after you set them up.
Mon., Feb. 24	Goals	Calculate the volumes of solids of revolution.
§8.2	Vocabulary	washer method
30.2	Assignment	<b>§8.2</b> 9, 17, 19, 21, AP4. <i>Note:</i> for #9 and #19, you should evaluate the integrals with a
	11551811111111	calculator after you set them up.
Tues., Feb. 25	Goals	Calculate volumes of solids of revolution.
§8.2	Assignment	§8.2 AP6, AP8, AP10
W-Th, Feb. 26-27	Goals	Calculate volumes of solids with known cross-section.
§8.4	Vocabulary	cross-section
80.4	Assignment	<b>§8.4</b> 9, 17, AP2, AP5, AP6, AP8abd. <i>Note:</i> For #9, only write the integrals; do not evaluate
	Assignment	them.
Fri., Feb. 28	Goals	Apply integration in a variety of contexts.
Review	Assignment	Study for the test.
Mon., Mar. 3	Goals	Apply integration in a variety of contexts.
Review; <b>AP Quiz 6</b>	Assignment	AP Quiz 6; study for the test.
······································	Goals	······································
Tues., Mar. 4 Quiz, Ch. 8	Assignment	Apply integration in a variety of contexts. <b>Quiz, Applications of the Integral</b> (this is the last thing that counts on the third quarter)
W-Th, Mar. 5-6	Goals	Determine what Number & Algebra and Functions topics you need to know for the IB exam.
AP MC no calculator	Assignment	Practice Exam, AP Calculus AB multiple choice section, no calculator;
practice exam,	Assignment	Number & Algebra, Functions worksheet
Number & algebra,		Number & Aigenta, Functions worksheet
functions		
Fri., Mar. 7	Goals	Determine the geometry and trigonometry tonics you need to know for the ID even
Geometry & trig	Vocabulary	Determine the geometry and trigonometry topics you need to know for the IB exam. amplitude, period
Geometry & trig	Assignment	Geometry and Trigonometry worksheet
Mon Mor 10	Goals	
Mon., Mar. 10 Geometry & trig;	Goais Assignment	Determine the geometry and trigonometry topics you need to know for the IB exam. <b>AP Quiz 7; Geometry and Trigonometry</b> worksheet
AP Quiz 7	Assignment	AT Quiz 1, Geometry and Trigonometry worksneet
	C1-	D.: 1
Tues., Mar. 11	Goals	Decide what probability topics you need to know for the IB exam.
Probability	Vocabulary Assignment	independent, mutually exclusive, conditional probability, intersection, union
W.Th. Man 12 12		Probability and the Binomial Distribution worksheet
W-Th, Mar. 12-13	Goals	Determine the areas of AP Calculus that need the most review before the exam in May.  Practice Every AP Calculus Free Personne Overting
AP Free Response	Assignment	Practice Exam, AP Calculus Free Response Questions
practice exam	5.1 3.7	
Fri., Mar. 14		ch 14, is the last day of the third quarter. The last assignment that counts on the quarter is
Activity day	: -	Ch. 8. (The entire review unit will count on the fourth quarter.)
End of third quarter	Goals	Determine the areas of AP Calculus that need the most review before the exam in May.
	Assignment	Make a plan to improve your understanding of AP calculus topics