#### AP Calculus AB: Topics and Assignments Weeks 1 and 2

Monday	7/30	NO SCHOOL!
Tuesday	7/31	NO SCHOOL!
Wednesday	8/1	Start of School/Class Policy and Expectations $\star$ HW: None!
Thursday	8/2	Class Policy and Expectations Lesson 4: Trigonometry Review  * Student Info  * HW: Problem Set 4 #3-6, 11-13  * HW: Problem Set 5 #7-9, 13, 16
Friday	8/3	Lesson 6: Functions Review $\star$ HW: Problem Set 6 #2, 7-15 $\star$ HW: Problem Set 7 #3, 11-14, 17, 18
Monday	8/6	Lesson 9: Logarithms Review  * HW: Problem Set 9 #3, 7, 10, 11, 14, 16, 23  * HW: Problem Set 10 #2, 12-14, 23
Tuesday	8/7	Graphing Calculator Activity $\star$ HW: WS 1
Wednesday	8/8	Lesson 11: Continuity and One-Sided Limits  * HW: Problem Set 11 #1-25  Focus Problems: #3-4, 7-9, 11-14, 21-23
Thursday	8/9	Lesson 14: Limit of a Function $\star$ HW: WS 2
Friday	8/10	Quiz #1: Lessons 1-11  * HW: None!

# AP Calculus AB: Topics and Assignments Weeks 3 and 4 $\,$

Monday	8/13	Lesson 15: Intervals and Increasing/Decreasing Functions $\star$ HW: Problem Set 15 #1-25 Focus Problems: #3, 5-8, 10-15
Tuesday	8/14	Lesson 16: Logarithms Review  ★ HW: Problem Set 16 #3-18, 20
Wednesday	8/15	Lesson 17: Limits at Infinity  ★ HW: WS 3
Thursday	8/16	Lesson 18: Function Composition Review  * HW: Problem Set 18 #1-25  Focus Problems: #3-8, 10-12, 15, 19, 22
Friday	8/17	Quiz #2: Lessons 11-17  * HW: None!
Monday	8/20	NO SCHOOL!
Monday Tuesday	8/20 8/21	NO SCHOOL!  Lesson 19: The Derivative  * HW: Problem Set 19 #1-25  Focus Problems: #2-7, 9-14, 16, 20, 22-23
v	8/21	Lesson 19: The Derivative  ★ HW: Problem Set 19 #1-25
Tuesday	8/21	Lesson 19: The Derivative  * HW: Problem Set 19 #1-25  Focus Problems: #2-7, 9-14, 16, 20, 22-23  Lesson 24: The Power Rule  * HW: Problem Set 24 #1-25

## AP Calculus AB: Topics and Assignments Weeks 5 and 6

Monday	8/27	Lesson 26: Derivatives of $e^x$ , $\sin(x)$ , $\cos(x)$ , $\ln(x)$ and Exponential Growth and Decay Problems $\star$ HW: WS 5
Tuesday	8/28	Lesson 27: Tangent Lines and Higher Order Derivatives $\star$ HW: Problem Set 27 #1-25 Focus Problems: #1-11, 15, 19
Wednesday	8/29	Lesson 28: Graphs of Rational Functions II $\star$ HW: WS 6
Thursday	8/30	Lesson 29+31: Differentials and the Product Rule $\star$ HW: WS 7
Friday	8/31	Quiz #3: Lessons 24-28  ★ HW: None!
Monday	9/3	NO SCHOOL!
Monday Tuesday	9/3 9/4	NO SCHOOL!  Lesson 32: Indefinite Integrals  * HW: Problem Set 32 #1-25  Focus Problems: #2-11, 13-14, 17, 19
·	,	Lesson 32: Indefinite Integrals  ★ HW: Problem Set 32 #1-25
Tuesday	9/4	Lesson 32: Indefinite Integrals  * HW: Problem Set 32 #1-25  Focus Problems: #2-11, 13-14, 17, 19  Lesson 33: Graphs of Polynomial Functions  * HW: Problem Set 33 #1-25
Tuesday Wednesday	9/4	Lesson 32: Indefinite Integrals  * HW: Problem Set 32 #1-25  Focus Problems: #2-11, 13-14, 17, 19  Lesson 33: Graphs of Polynomial Functions  * HW: Problem Set 33 #1-25  Focus Problems: #3, 5-9, 11-13, 15, 21-22  Lesson 34: Implicit Differentiation

## AP Calculus AB: Topics and Assignments Weeks 7 and 8

Monday	9/10	Lesson 35: More Indefinite Integrals  ★ HW: Problem Set 35: #1-25  Focus Problems: #1-10, 12-18
Tuesday	9/11	Lesson 36: Critical Numbers  ★ HW: Problem Set 36 #1-25  Focus Problems: #2-11, 13, 15, 18, 20-21
Wednesday	9/12	Lesson 37: Differentiation by U-Substitution  * HW: Problem Set 37 #1-25  Focus Problems: #1-13, 15, 19
Thursday	9/13	Lesson 38: Integrals of Sums  * HW: Problem Set 38 #1-25  Focus Problems: #2-13, 16, 19
Friday	9/14	TEST #2: Lessons 1-38  * HW: None!
Monday	9/17	Lesson 40: Units for Derivatives and Normal Lines  * HW: Problem Set 40 #1-25  Focus Problems: #1-19, 22
Tuesday	9/18	Lesson 39: Area Under a Curve (Upper and Lower Sums)  ★ HW: None!
Wednesday	9/19	Lesson 39: Area Under a Curve (Left, Right, and Midpoint Sums) $\star$ HW: WS 9
Thursday	9/20	Lesson 41: Graphs of Rational Functions III  * HW: Problem Set 41 #1-25  Focus Problems: # 2-11, 13-20
Friday	9/21	Lesson 42+43: Quotient Rule & Infinite Sums  * HW: Problem Set 43 #1-25  Focus Problems: # 1-7, 9-16

# AP Calculus AB: Topics and Assignments Week 9 and 10

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Monday	9/24	Lessons 44: Chain Rule and Alternate Definition of Derivative * HW: WS 10
Tuesday	9/25	Lesson 45: Using $f$ to Characterize $f'$ $\star$ HW: Problem Set 45 #1-25
		Focus Problems: # 2-8, 12-20
Wednesday	9/26	Lesson 47: Fundamental Theorem of Calculus + Definite Integral $\star$ HW: WS 12
Thursday	9/27	Lesson 46: Related Rates $\star$ HW: Problem Set 46 #1-25
		Focus Problems: #2-8
Friday	9/28	Quiz #5: Lessons 39-47, excluding 46 $\star$ HW: None!
Monday	10/1	Lesson 46 Continued
		* HW: WS 11
Tuesday	10/2	Lesson 49: First and Second Derivative Tests  * HW: None!
Wednesday	10/3	Lesson 49 Continued  ★ HW: Problem Set 49 #1-25
		Focus Problems: # 1-9, 11, 14-15, 22
Thursday	10/4	Lesson 50: More Chain Rule  ★ HW: Problem Set 50 #1-25
		Focus Problems: #1-16, 18
Friday	10/5	Test # 3: Lessons 1-50 * HW: None!
10/6 -	10/14	FALL BREAK!

## AP Calculus AB: Topics and Assignments Weeks 11 and 12

Monday	10/15	Lesson 51: Integration by Guessing  * HW: Problem Set 51 #1-25  Focus Problems: # 1-18
Tuesday	10/16	Lessons 52+53: Optimization Problems $\star$ HW: WS 13
Wednesday	10/17	Lesson 54: Velocity and Acceleration $\star$ HW: Problem Set 54 #1-25 Focus Problems: # 2-10, 13, 17, 19
Thursday	10/18	Lesson 56: More Integration by Guessing  * HW: Problem Set 56 #1-25  Focus Problems: #2-12, 18, 21, 23
Friday	10/19	Quiz #6 Lessons 46-56 $\star$ HW: None!
Monday	10/22	Lesson 57: Properties of the Definite Integral  * HW: Problem Set 57 #1-25  Focus Problems: # 4-13, 16-19
Tuesday	10/23	Lesson 59: Computing Areas  * HW: Problem Set 59 #1-25  Focus Problems: # 5-8, 12-16
Wednesday	10/24	Study for Trimester Final Exam $\star$ HW: None!
Thursday	10/25	Trimester Final Exam Part 1 $\star$ HW: None!
Friday	10/26	Trimester Final Exam Part 2  * HW: None!

## AP Calculus AB: Topics and Assignments Weeks 13 and 14

Monday	10/29	Go over Trimester I Final Exam  * HW: None!
Tuesday	10/30	Lesson 60: Area between Two Curves  ★ HW: WS 14
Wednesday	10/31	Lesson 61: Playing Games  * HW: Problem Set 61 #1-25  Focus Problems: # 5-19
Thursday	11/1	Lesson 62: Work, Distance, and Rates $\star$ HW: Problem Set 62 #1-25 Focus Problems: # 4-11, 14-16, 19, 21, 22
Friday	11/2	Quiz #7: Lessons 56-60 * HW: None!
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Monday	11/5	Lesson 63: Critical Number Theorm  * HW: Problem Set 63 #1-25  Focus Problems: # 2-4, 6-12, 14-17, 20, 21
Monday Tuesday	11/5 11/6	$\star$ HW: Problem Set 63 #1-25
·		* HW: Problem Set 63 #1-25 Focus Problems: # 2-4, 6-12, 14-17, 20, 21  Lesson 64: Derivatives of Inverse Trig Functions * HW: Problem Set 64 #1-25
Tuesday	11/6	* HW: Problem Set 63 #1-25 Focus Problems: # 2-4, 6-12, 14-17, 20, 21  Lesson 64: Derivatives of Inverse Trig Functions * HW: Problem Set 64 #1-25 Focus Problems: # 1, 4-7, 9, 11-19, 22  Lesson 65: Falling-Body Problems * HW: Problem Set 65 #1-25
Tuesday Wednesday	11/6 11/7	* HW: Problem Set 63 #1-25 Focus Problems: # 2-4, 6-12, 14-17, 20, 21  Lesson 64: Derivatives of Inverse Trig Functions * HW: Problem Set 64 #1-25 Focus Problems: # 1, 4-7, 9, 11-19, 22  Lesson 65: Falling-Body Problems * HW: Problem Set 65 #1-25 Focus Problems: # 1-3, 5-9, 11-12, 15-19, 23  Lesson 67: Areas Involving Functions of $y$

# AP Calculus AB: Topics and Assignments Weeks 15 and 16

Monday	11/12	NO SCHOOL!
Tuesday	11/13	Lesson 66: Integration Using U-Substitution $\star$ HW: Problem Set 66 #1-25 Focus Problems: # 4, 5, 14-19
Wednesday	11/14	Lesson 66 Continued  ★ HW: Finish WS 16
Thursday	11/15	AP Packet Workday (AP Packet Due 12/1)  * HW: Study for Test!
Friday	11/16	Test #5: Lessons 1-66 * HW: None!
Monday	11/19	AP Packet Workday  ★ HW: Work on AP Packet
Tuesday	11/20	AP Packet Work Day  ** HW: AP Packet #1 due Friday 11/30!
Wednesday	11/21	NO SCHOOL!
Thursday	11/22	NO SCHOOL!
Friday	11/23	NO SCHOOL!

# AP Calculus AB: Topics and Assignments Weeks 17 and 18

Monday	11/26	NO SCHOOL!
Tuesday	11/27	Lesson 68: Even and Odd Functions  * HW: Problem Set 68 #1-25  Focus Problems: # 2-9, 13, 16, 18
Wednesday	11/28	Lesson 70: Properties of Limits  * HW: Problem Set 70 #1-25  Focus Problems: #3, 6-13, 18, 19
Thursday	11/29	Lesson 71: Solids of Revolution I: Disks  * HW: Problem Set 71 #1-25  Focus Problems: #3-5
Friday	11/30	Lesson 71 continued  ★ HW: WS 17
Monday	12/3	Lesson 72: Derivatives of $\log(x)$ , $a^x$ and $ f(x) $ * HW: Problem Set 72 #1-25 Focus Problems: # 2-6, 8, 13-15, 17, 20-23
Tuesday	12/4	Quiz #9: Lessons 66-71 * HW: None!
Wednesday	12/5	Lesson 73: Integrals of $a^x$ and $\log(x)$ * HW: Problem Set 73 #1-25 Focus Problems: # 3-9, 11-13, 17, 20, 24, 25
Thursday	12/6	Lesson 75: Continuity of Functions  * HW: Problem Set 75 #1-25  Focus Problems: # 2-6, 9-11, 16, 18, 20-23
Friday	12/7	Lesson 78: Particle Motion I $\star$ HW: Problem Set 78 #1-25 Focus Problems: # 2-3, 6-7, 9-11, 14, 16, 23, 25

#### AP Calculus AB: Topics and Assignments Weeks 19 and 20

Monday	12/10	Lesson 79: L'Hopital's Rule  ★ HW: WS 18
Tuesday	12/11	Test #6 : Lessons 1-78 * HW: None!
Wednesday	12/12	Lesson 81: Solids of Revolution II (Washer Method)  ★ HW: WS 19 (Due Wednesday)
Thursday	12/13	Lesson 81: Solids of Revolution II: Washers  ★ HW: WS 19
Friday	12/14	Lesson 82: Differentiability  ★ HW: Problem Set 82 #1-25  Focus Problems: #3-4, 6-13
Monday	12/17	Lesson 84: Logarithmic Differentiation  * HW: Problem Set 84 #1-25  Focus Problems: #3, 5-9, 14, 16, 17, 19, 21, 24
Tuesday	12/18	Quiz #10 : Lessons 75-81 $\star$ HW: Bring a gift under \$10
Wednesday	12/19	Christmas Party!
Thursday	12/20	Half Day!
Friday	12/21	NO SCHOOL!

## AP Calculus AB: Topics and Assignments Weeks 21 and 22

Monday	1/7	Lesson 85: Mean Value Theorem and Rolle's Theorem ★ HW: None!
Tuesday	1/8	Lesson 85 continued  ★ HW: WS 20
Wednesday	1/9	Lesson 86: Rules for Even and Odd Functions $\star$ HW: Problem Set 86 $\#1\text{-}25$ Focus Problems: $\#2\text{-}4,\ 10,\ 11,\ 13\text{-}15,\ 18,\ 20\text{-}22$
Thursday	1/10	Lesson 88: Separable Differential Equations * HW: Problem Set 88 #1-25 Focus Problems: #6-8, 17, 22, 25
Friday	1/11	Test #7: Lessons 1-84  * HW: None!
Monday	1/14	Lesson 88 continued  * HW: WS 21
Tuesday	1/15	Lesson 89: Average Value of a Function $\star$ HW: Problem Set 89 #1-25 Focus Problems: #2,4,6-10, 12-15,24
Wednesday	1/16	Lesson 90: Particle Motion II  * HW: Problem Set 90 #1-25  Focus Problems: #1-9,15
Thursday	1/17	Lesson 92: Derivatives of Inverse Functions  * HW: WS 22
Friday	1/18	Take Home Quiz - Due Tuesday

## AP Calculus AB: Topics and Assignments Weeks 23 and 24

Monday	1/21	NO SCHOOL!
Tuesday	1/22	Lesson 94: Solids of Revolution IV: Displaced Axes * HW: Problem Set 94 #1-25 Focus Problems: #2, 6, 11, 12, 15, 18
Wednesday	1/23	Lesson 94 continued  ★ HW: WS 23
Thursday	1/24	Lesson 95: Trapezoidal Riemann Sums $\star$ HW: Problem Set 95 #1-25 Focus Problems: #4-5, 6a, 9, 10, 15a, 16, 17, 23, 24
Friday	1/25	Quiz #11: Lessons 85-94  * HW: None!
Monday	1/28	Review for Trimester II Final Exam  * HW: None!
Monday Tuesday	1/28 1/29	
·	,	$\star$ HW: None! Review for Trimester II Final Exam
Tuesday	1/29	* HW: None!  Review for Trimester II Final Exam     * HW: None!  TRIMESTER II FINAL (Calculator MC)
Tuesday  Wednesday	1/29 1/30	* HW: None!  Review for Trimester II Final Exam     * HW: None!  TRIMESTER II FINAL (Calculator MC)     * HW: Study for Final!  TRIMESTER II FINAL (Non-Calc MC + Calc FRQs)

## AP Calculus AB: Topics and Assignments Weeks 25 and 26

Monday	2/4	Lesson 96: Derivatives and Integrals of Absolute Value * HW: Problem Set 96 #1-25 (Due Wednesday) Focus Problems: #1, 3-6, 7b, 10, 16, 22, 24
Tuesday	2/5	Go Over Trimester Final Exam  * HW: None!
Wednesday	2/6	Lesson 97: Solids Defined by Cross Sections  * HW: Problem Set 97 #1-25  Focus Problems: # 3-9, 13, 20
Thursday	2/7	Lesson 97 continued  ★ HW: WS 24
Friday	2/8	Lesson 98+136: Fundamental Theorem of Calculus, Part 2  * HW: Problem Set 98 #1-25  Focus Problems 98: # 3-8, 10-14, 16, 17  Focus Problems 137: # 6, 7
Monday	2/11	Lesson 104: Slope Fields  ★ HW: WS 25
Tuesday	2/12	Lesson 124: Implicit Differentiation Part II  * HW: Problem Set 124 #1-25 (DUE Monday)  Focus Problems: # 1-5, 20, 24, 25
Wednesday	2/13	Begin Work on AP Packet # 2  * HW: None!
Thursday	2/14	Work on AP Packet # 2  * HW: None!
Friday	2/15	Finish AP Packet # 2  * HW: HW 124 from Monday

#### AP Calculus AB: Topics and Assignments Weeks 27 and 28

Monday	2/18	Riemann Sum FRQ $\star$ HW: WS 26 (Due Monday)
Tuesday	2/19	Go Over AP Packet 2  ** HW: None!
Wednesday	2/20	Integration Application/Rate Problem FRQ $\star$ HW: WS 27
Thursday	2/21	NO SCHOOL!
Friday	2/22	NO SCHOOL!
Monday	2/25	MC Packet 1
Tuesday	2/26	Work on MC Packet 1  ★ HW: MC Packet 1
Wednesday	2/27	MC Packet 2
Thursday	2/28	Work on MC Packet 2 $\star$ HW: MC Packet 2
Friday	3/1	MC Packet 3

## AP Calculus AB: Topics and Assignments Weeks 29 and 30

Monday	3/4	Work on MC Packet 3  ★ HW: MC Packet 3
Tuesday	3/5	Differentiation Reivew  * HW: WS 28
Wednesday	3/6	Review for Test #8
Thursday	3/7	TEST $\#8$ - FRQs
Friday	3/8	TEST #8 - MCs with a Calculator
Monday	3/11	Go over Test #8  * HW: WS 29
Tuesday	3/12	Integration Reivew/MC Packet 4
Wednesday	3/13	Work on MC Packet 4  * HW: MC Packet 4
Thursday	3/14	MC Packet 5
Friday	3/15	Quiz #12: Derivatives/Integrals
3/16 -	3/24	SPRING BREAK

# AP Calculus AB: Topics and Assignments Weeks 31 and 32

Monday	3/25	Work on MC Packet 5  * HW: MC Packet 5
Tuesday	3/26	MC Packet 6
Wednesday	3/27	Work on MC Packet 6  * HW: MC Packet 6
Thursday	3/28	MC Packet 7
Friday	3/29	MC Packet 7 ★ HW: MC Packet 7
Monday	4/1	MC Packet 8
Tuesday	4/2	Work on MC Packet 8 * HW: MC Packet 8
Wednesday	4/3	Big 6 Overview  ★ HW: None!
Thursday	4/4	FRQ Packet 1  * HW: FRQ Packet 1
Friday	4/5	Go Over FRQ Packet 1  * HW: None!

#### AP Calculus AB: Topics and Assignments

Weeks 33 and 34

Monday	4/8	FRQ Packet 2  * HW: FRQ Packet 2
Tuesday	4/9	Go Over FRQ Packet 2  * HW: None!
Wednesday	4/10	MC Test Part 1  * HW: None!
Thursday	4/11	MC Test Part 2  * HW: None!
Friday	4/12	Go over MC Test ⋆ HW: None!
Monday	4/15	NO SCHOOL!
Tuesday	4/16	NO SCHOOL!
Wednesday	4/17	FRQ Packet 3 $\star$ HW: FRQ Packet 3
Thursday	4/18	Go Over FRQ Packet 3 HW: None!
Friday	4/19	Mock Exam Review  ★ HW: None!
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\*\*\* Saturday, April 20th, Full Mock AP Calculus AB Exam \*\*\*
Afternoon start time is 12:00 PM

## AP Calculus AB: Topics and Assignments Weeks 35 and 36

Monday	4/22	FRQ Packet 4 $\star$ HW: FRQ Packet 4
Tuesday	4/23	Go Over FRQ Packet 4  * HW: None!
Wednesday	4/24	FRQ Packet 5  * HW: FRQ Packet 5
Thursday	4/25	Go Over FRQ Packet 5  * HW: None!
Friday	4/26	FRQ Packet 6  * HW: FRQ Packet 6
Monday	4/29	Go Over FRQ Packet 6  * HW: None!
Monday Tuesday	4/29 4/30	· ·
·	4/30	* HW: None!  Review Day
Tuesday	4/30	<ul><li>★ HW: None!</li><li>Review Day</li><li>★ HW: None!</li><li>Review Day</li></ul>

## AP Calculus AB: Topics and Assignments Weeks 37 and 38

Monday	5/6	Review/AP Week
Tuesday	5/7	Review/AP Week
Wednesday	5/8	Review/AP Week
Thursday	5/9	Review/AP Week
Friday	5/10	Review/AP Week
Monday	5/13	Review/AP Week  ★ Big 6 Review 4-7PM
Tuesday	5/14	AP CALC AB EXAM 8AM !!!
Wednesday	5/15	Review/AP Week
Thursday	5/16	Review/AP Week
Friday	5/17	Review/AP Week