

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 ★ 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 ★ HW: Problem Set 6 #2, 7-15 ★ 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 ★ 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 ★ HW: WS 2
Friday	8/10	Quiz #1: Lessons 1-11 ★ HW: None!

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Weeks 3 and 4

Monday	8/13	Lesson 15: Intervals and Increasing/Decreasing Functions ★ 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!
Tuesday	8/21	Lesson 19: The Derivative ★ HW: Problem Set 19 #1-25 Focus Problems: #2-7, 9-14, 16, 20, 22-23
Wednesday	8/22	Lesson 24: The Power Rule ★ HW: Problem Set 24 #1-25 Focus Problems: #2-8, 15-18, 21
Thursday	8/23	Lesson 25: Rules of Derivatives ★ HW: WS 4
Friday	8/24	TEST #1: Lessons 1-24 ★ HW: None!

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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 ★ HW: WS 5
Tuesday	8/28	Lesson 27: Tangent Lines and Higher Order Derivatives ★ HW: Problem Set 27 #1-25 Focus Problems: #1-11, 15, 19
Wednesday	8/29	Lesson 28: Graphs of Rational Functions II ★ HW: WS 6
Thursday	8/30	Lesson 29+31: Differentials and the Product Rule ★ HW: WS 7
Friday	8/31	Quiz #3: Lessons 24-28 ★ HW: None!

Monday	9/3	NO SCHOOL!
Tuesday	9/4	Lesson 32: Indefinite Integrals ★ HW: Problem Set 32 #1-25 Focus Problems: #2-11, 13-14, 17, 19
Wednesday	9/5	Lesson 33: Graphs of Polynomial Functions ★ HW: Problem Set 33 #1-25 Focus Problems: #3, 5-9, 11-13, 15, 21-22
Thursday	9/6	Lesson 34: Implicit Differentiation ★ HW: WS 8
Friday	9/7	Quiz #4: Lessons 29-33 ★ HW: None!

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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) ★ 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

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Week 9 and 10

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' ★ HW: Problem Set 45 #1-25 Focus Problems: # 2-8, 12-20
Wednesday	9/26	Lesson 47: Fundamental Theorem of Calculus + Definite Integral ★ HW: WS 12
Thursday	9/27	Lesson 46: Related Rates ★ HW: Problem Set 46 #1-25 Focus Problems: #2-8
Friday	9/28	Quiz #5: Lessons 39-47, excluding 46 ★ 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!
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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 ★ HW: WS 13
Wednesday	10/17	Lesson 54: Velocity and Acceleration ★ 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 ★ 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 ★ HW: None!
Thursday	10/25	Trimester Final Exam Part 1 ★ HW: None!
Friday	10/26	Trimester Final Exam Part 2 ★ HW: None!

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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 ★ 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!

Monday	11/5	Lesson 63: Critical Number Theorem ★ HW: Problem Set 63 #1-25 Focus Problems: # 2-4, 6-12, 14-17, 20, 21
Tuesday	11/6	Lesson 64: Derivatives of Inverse Trig Functions ★ HW: Problem Set 64 #1-25 Focus Problems: # 1, 4-7, 9, 11-19, 22
Wednesday	11/7	Lesson 65: Falling-Body Problems ★ HW: Problem Set 65 #1-25 Focus Problems: # 1-3, 5-9, 11-12, 15-19, 23
Thursday	11/8	Lesson 67: Areas Involving Functions of y ★ HW: WS 15
Friday	11/9	Quiz #8: Lessons 61-64 ★ HW: None!

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Weeks 15 and 16

Monday	11/12	NO SCHOOL!
Tuesday	11/13	Lesson 66: Integration Using U-Substitution ★ 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!

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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 ★ HW: Problem Set 78 #1-25 Focus Problems: # 2-3, 6-7, 9-11, 14, 16, 23, 25

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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 ★ HW: None!
Wednesday	12/19	No Class?
Thursday	12/20	NO SCHOOL!
Friday	12/21	NO SCHOOL!

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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 ★ HW: Problem Set 86 #1-25 Focus Problems: #2-4, 10, 11, 13-15, 18, 20-22
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 ★ 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 ★ HW: None!

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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 ★ 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!
Tuesday	1/29	Review for Trimester II Final Exam ★ HW: None!
Wednesday	1/30	TRIMESTER II FINAL (Calculator MC) ★ HW: Study for Final!
Thursday	1/31	TRIMESTER II FINAL (Non-Calc MC + Calc FRQs) ★ HW: Study for Final!
Friday	2/1	TRIMESTER II FINAL (Non-Calculator FRQs) ★ HW: Relax and Enjoy the weekend!

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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

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Weeks 27 and 28

Monday	2/18	Riemann Sum FRQ ★ HW: WS 26 (Due Monday)
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Tuesday	2/19	Go Over AP Packet 2 ★ HW: None!
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Wednesday	2/20	NO SCHOOL!
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Thursday	2/21	NO SCHOOL!
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Friday	2/22	NO SCHOOL!
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Monday	2/25	Integration Application/Rate Problem FRQ ★ HW: WS 27
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Tuesday	2/26	MC Packet 1
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Wednesday	2/27	Work on MC Packet 1 ★ HW: MC Packet 1
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Thursday	2/28	MC Packet 2
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Friday	3/1	Work on MC Packet 2 ★ HW: MC Packet 2
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Weeks 29 and 30

Monday	3/4	MC Packet 3
Tuesday	3/5	Work on MC Packet 3 ★ HW: MC Packet 3
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 28
Tuesday	3/12	Differentiation Reivew ★ HW: WS 29
Wednesday	3/13	Integration Reivew/MC Packet 4
Thursday	3/14	Work on MC Packet 4 ★ HW: MC Packet 4 (Due this Friday!)
Friday	3/15	Quiz #12: Derivatives/Integrals

3/16 -	3/24	SPRING BREAK
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Weeks 31 and 32

Monday	3/25	MC Packet 5
Tuesday	3/26	Work on MC Packet 5 ★ HW: MC Packet 5
Wednesday	3/27	MC Packet 6
Thursday	3/28	ork on MC Packet 6 ★ HW: MC Packet 6
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!

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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 Test 8 ★ HW: None!

Monday	4/15	NO SCHOOL!
Tuesday	4/16	NO SCHOOL!
Wednesday	4/17	NO SCHOOL!
Thursday	4/18	FRQ Packet 3 ★ HW: FRQ Packet 3
Friday	4/19	Mock Exam Review ★ HW: None!

***** Saturday, April 20th, Full Mock AP Calculus AB Exam *****

Afternoon start time is 12:00 PM

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Weeks 35 and 36

Monday	4/22	Go Over FRQ Packet 3 HW: None!
Tuesday	4/23	FRQ Packet 4 ★ HW: FRQ Packet 4 (Due Wednesday)
Wednesday	4/24	Go Over FRQ Packet 4 ★ HW: None!
Thursday	4/25	FRQ Packet 5 ★ HW: FRQ Packet 5 (Due Friday)
Friday	4/26	Go Over FRQ Packet 5 ★ HW: None!

Monday	4/29	FRQ Packet 6 ★ HW: FRQ Packet 6 (Due Tuesday)
Tuesday	4/30	Go Over FRQ Packet 6 ★ HW: None!
Wednesday	5/1	Review Day ★ HW: None!
Thursday	5/2	BIG 6 Test Part 1
Friday	5/3	BIG 6 Test Part 2

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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
