Pre-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	
Thursday	8/2	Class Policy and Expectations Lesson 5 Exponents and Radicals Complex Numbers Areas of Similar Geometric Figures Diagonals of Rectangular Solids	
Friday	8/3	Lesson 6 Fractional Equations Radical Equations Systems of Three Linear Equations	* HW DUE: PS 5 Student Info Sheet
Monday	8/6	Lesson 7 Inductive and Deductive Reasoning Logic Contrapositive, converse, inverse	* HW DUE: PS 6
Tuesday	8/7	Lesson 8 Statements of Similarity Proportional Segments Angle Bisectors, Side Ratios	* HW DUE: PS 7
Wednesday	8/8	Quiz #1: Lessons 1-6	
Thursday	8/9	Lesson 9 Congruent Figures Proof Outlines	* HW DUE: PS 8
Friday	8/10	Lesson 10 Equation of a Line Rational Denominators Completing the Square	★ HW DUE: PS 9

Pre-Calculus AB: Topics and Assignments Weeks 3 and 4

Monday	8/13	Lesson 11 Circles Properties of Circles	* HW DUE: PS 10
Tuesday	8/14	Lesson 12 Angles, diagonals in Polygons	* HW DUE: WS 1
Wednesday	8/15	TEST #1: Lessons 1-8	
Thursday	8/16	Lesson 13 Intersecting Secants, tangents Products of Chord Segments Product secant, tangent segments	* HW DUE: PS 12
Friday	8/17	Lesson 14 Sine, Cosine, Tangent Angles of Elevation, depression Rectangular Polar Coords Coordinate Conversion	* HW DUE: PS 13
Monday	8/20	NO SCHOOL!	
Tuesday	8/21	Lesson 15 Proofs	* HW DUE: WS 2
Wednesday	8/22	Quiz #2: Lessons 8-14	
Thursday	8/23	Lesson 16 Complex Fractions Abstract Equations Division of Polynomials	* HW DUE: PS 15
Friday	8/24	Lesson 17 Proofs of Pythagorean Thm Proofs of Similarity	* HW DUE: PS 16

Pre-Calculus AB: Topics and Assignments Weeks 5 and 6 $\,$

Monday	8/27	Lesson 18 Advanced Word Problems	* HW DUE: PS 17
Tuesday	8/28	Lesson 19 Nonlinear Systems Factoring Exponentials Sum, Difference of Cubes	* HW DUE: WS 3
Wednesday	8/29	TEST #2: Lessons 1-16	
Thursday	8/30	Lesson 20 Two Special Triangles	* HW DUE: PS 19
Friday	8/31	Lesson 21 Evaluating Functions Domain and Range Tests for Functions	* HW DUE: PS 20
M 1.	0 /2	NO COHOOLI	
Monday Tuesday	9/3	NO SCHOOL! Lesson 21 Basic Graphs	* HW DUE: WS 4
		Transformations	
Wednesday	9/5	_	
Wednesday Thursday	9/5	Transformations	* HW DUE: WS 5

Pre-Calculus AB: Topics and Assignments Weeks 7 and 8

Monday	9/10	Lesson 24 Sum of Trig Functions Combining Functions	* HW DUE: PS 23
Tuesday	9/11	Lesson 25 Rate Problems	★ HW DUE: PS 24
Wednesday	9/12	TEST #3: Lessons 1-22	
Thursday	9/13	Lesson 26 Log and Exponential Form Log Equations	* HW DUE: WS 6
Friday	9/14	Lesson 27 Related Angles Sign of Trig Functions	* HW DUE: PS 26
Monday	9/17	Lesson 28 Factorial Notation Abstract Rate Problems	* HW DUE: PS 27
Tuesday	9/18	Lesson 29 The Unit Circle Quadrantal Angles	* HW DUE: PS 28
Wednesday	9/19	Quiz #4: Lessons 21-28	
Thursday	9/20	Lesson 30 Addition of Vectors Overlapping Triangles	* HW DUE: WS 7
Friday	9/21	$\begin{array}{c} \text{Lesson 31} \\ \text{Symmetry} \\ \text{Reflections} \\ \text{Translations} \end{array}$	* HW DUE: PS 30

Pre-Calculus AB: Topics and Assignments Weeks 9 and 10

Monday	9/24	Lesson 32 Inverse Functions	* HW DUE: PS 31
Tuesday	9/25	Lesson 32 Inverse Trig Functions	* HW DUE: WS 8
Wednesday	9/26	TEST #4: Lessons 1-30	
Thursday	9/27	$\begin{array}{c} {\rm Lesson} \ 33 \\ {\it Quadrilaterals} \\ {\it Parallelograms} \\ {\it Trapezoids} \end{array}$	* HW DUE: WS 9
Friday	9/28	Lesson 34 Summation Notation Linear Regression Decomposing Functions	* HW DUE: PS 33
Monday	10/1	Lesson 35 Change in Coordinates Distance Formula	* HW DUE: WS 10
Tuesday	10/2	Lesson 36 & 37 Line as a Locus Midpoint Formula	* HW DUE: PS 35
Wednesday	10/3	Quiz #5: Lessons 29-35	
Thursday	10/4	Lesson 38 Fund. Counting Principle Permutations Designated Roots Overall Average Rate	* HW DUE: PS 37
Friday	10/5	Lesson 39 Forms of a Line	* HW DUE: PS 38

Pre-Calculus AB: Topics and Assignments $_{\rm Week~11}$

Monday	10/8	NO SCHOOL!	
Tuesday	10/9	NO SCHOOL!	
Wednesday	10/10	NO SCHOOL!	
Thursday	10/11	NO SCHOOL!	
Friday	10/12	NO SCHOOL!	
Monday	10/15	Lesson 40 Argument in Math Law of Logs Properties of Inverses	* HW DUE: WS 11
Tuesday	10/16	Lesson 41 Reciprocal Trig Functions Permutation Notation	* HW DUE: WS 12
Wednesday	10/17	TEST #5: Lessons 1-38	
Thursday	10/18	Lesson 42 Conic Sections Circles Exponential Functions	* HW DUE: PS 41
Friday	10/19	Lesson 43 Periodic Functions Graphs of Sine and Cosine	* HW DUE: WS 13

Pre-Calculus AB: Topics and Assignments Weeks 12 and 13

Monday	10/22	Lesson 44 Abstract Rate Problems	* HW DUE: WS 14
Tuesday	10/23	Lesson 45 Conditional Permutations Two-variable Analysis	* HW DUE: PS 44
Wednesday	10/24	Quiz #6: Lessons 38-44	
Thursday	10/25	Lesson 46 $Complex\ Roots$ $Factoring\ over\ \mathbb{C}$	* HW DUE: PS 45
Friday	10/26	Lesson 47 Vertical Sinusoid Shifts Arctangent	* HW DUE: WS 15
Monday	10/29	Lesson 48 Powers of Trig Functions Perpendicular Bisectors	* HW DUE: WS 16
Tuesday	10/30	Lesson 49 & 50 Log Functions Trig Equations	* HW DUE: PS 48
Wednesday	10/31	TEST #6: Lessons 1-46	
Thursday	11/1	Lesson 51 & 52 Natural and Common Logs Arguments in Trig Equations	* HW DUE: WS 17
Friday	11/2	Lesson 53 Unit Multipliers Angular Velocity	★ HW DUE: PS 52

Pre-Calculus AB: Topics and Assignments Weeks 14 and 15

Monday	11/5	Lesson 54 Parabolas	* HW DUE: PS 53
Tuesday	11/6	Lesson 55 Circular Permutations Distinguishable Permutations	* HW DUE: WS 18
Wednesday	11/7	Quiz #7: Lessons $46-53$	
Thursday	11/8	Lesson 56 Triangular Areas System of Inequalities	★ HW DUE: PS 55
Friday	11/9	Lesson 57 Phase Shifts Period of a Sinusoid	* HW DUE: PS 56
Monday	11/12	NO SCHOOL!	
Tuesday	11/13	Lesson 58 Distrace from point to line More Parabolas	* HW DUE: WS 19
Wednesday	11/14	TEST #7: Lessons 1-55	
Thursday	11/15	Lesson 59 Advanced Log Problems Color of the White House	* HW DUE: PS 58
Friday	11/16	Lesson 60 Factorable Trig Equations Loss of Solutions	* HW DUE: WS 20

Pre-Calculus AB: Topics and Assignments Weeks 16 and 17

Monday	11/19	Lesson 61 Single-variable Analysis Normal Distribution Box and Whisker Plots	* HW DUE: WS 21
Tuesday	11/20	TBA	* HW DUE: PS 61
Wednesday	11/21	NO SCHOOL!	
Thursday	11/22	NO SCHOOL!	
Friday	11/23	NO SCHOOL!	
Monday	11/26	NO SCHOOL!	
Tuesday	11/27	Lesson 62 & 63 Abstract Coefficients Linear Variation Circles	
Wednesday	11/28	Quiz #8: Lessons 55-61	
Thursday	11/29	Lesson 64 Complex Plane Polar Form Sums and Products	* HW DUE: WS 22
Friday	11/30	Lesson 65 Radicals in Trig Equations Graphs of Log Functions	* HW DUE: PS 64

Pre-Calculus AB: Topics and Assignments Weeks 18 and 19

Monday	12/3	Lesson 66 Standard Form of a Sinusoid Phase Shifts, Period Changes	* HW DUE: PS 65
Tuesday	12/4	Lesson 67 & 68 Antilogarithms Locus Definition-Parabola Focus and Directrix	* HW DUE: WS 23
Wednesday	12/5	TEST #8: Lessons 1-64	
Thursday	12/6	Lesson 68 Standard Form of a Parabola Applications	★ HW DUE: PS 67
Friday	12/7	Lesson 69 Matrices Determinants	* HW DUE: PS 68
Monday	12/10	Calculator Day Graphing, Changing Window Finding zeros, max, min Intersection Points	* HW DUE: WS 24
Tuesday	12/11	Lesson 71 The Ellipse	* HW DUE: WS 25
Wednesday	12/12	Lesson 72 One Side, Two Parts Law of Sines	* HW DUE: PS 71
Thursday	12/13	Lesson 73 & 74 Regular Polygons Cramer's Rule	* HW DUE: WS 26
Friday	12/14	Lesson 75 Combinations	★ HW DUE: PS 74

Pre-Calculus AB: Topics and Assignments Weeks 20 and 21

Monday	12/17	Lesson 76 Even and Odd Functions Trig Identities	* HW DUE: PS 75
Tuesday	12/18	Quiz # 9: Lessons 65 - 74	* HW DUE: WS 28
Wednesday	12/19	Christmas Party! + Gift Exchange	HW: Bring a gift under \$10
Thursday	12/20	NO SCHOOL!	
Friday	12/21	NO SCHOOL!	
Monday	1/7	Review - Functions	
Tuesday	1/8	Review - Trig Functions	
Wednesday	1/9	Review - Word Problems	
Thursday	1/10	Review - Geometry	
Friday	1/11	Review - Algebra	

Pre-Calculus AB: Topics and Assignments Weeks 22 and 23

Monday	1/15	Pre-Comps or Midterms	
Tuesday	1/15	Pre-Comps or Midterms	
Wednesday	1/16	Pre-Comps or Midterms	
Thursday	1/17	Review Lessons 72-76 Law of Sines Cramer's Rule Combinations Even and Odd Functions Trig Identities	
Friday	1/18	Lesson 77 Binomial Expansion	★ HW DUE: PS 76
1.6	1 (01	No demont	
Monday	1/21	NO SCHOOL!	
Tuesday	1/22	Lesson 78 The Hyperbola	* HW DUE: WS 28
Wednesday	1/23	TEST #9: Lessons 1- 75	
Thursday	1/24	Lesson 79 De Moivre's Theorem Roots of Complex Numbers	* HW DUE: PS 78
Friday	1/25	Lesson 80 Trig Identities	* HW DUE: WS 30

Pre-Calculus AB: Topics and Assignments Weeks 24 and 25

Monday	1/28	Lesson 81 Law of Cosine	* HW DUE: PS 80
Tuesday	1/29	Lesson 82 Taking the Log of Exponential Equations	* HW DUE: WS 31
Wednesday	1/30	Quiz # 10 : Lessons 75-81	
Thursday	1/31	Lesson 83 Simple Probability Independent Events	* HW DUE: WS 32
Friday	2/1	Lesson 84 Factorable Expressions Sketching Sinusoids	★ HW DUE: PS 83
Monday	2/4	Lesson 85 Advanced Trig Equations	* HW DUE: WS 33
Tuesday	2/5	Lesson 86 Arithmetic Progressions Arithmetic Means	* HW DUE: PS 85
Wednesday	2/6	TEST #10: Lessons 1-83	
Thursday	2/7	Lesson 87 Sum/Difference Identities Tangent Iddentities	* HW DUE: WS 34
Friday	2/8	Lesson 88 Exponential Functions Exponential Growth/Decay	* HW DUE: PS 87

Pre-Calculus AB: Topics and Assignments

Week	26
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Monday	2/11	Lesson 89 & 90 The Ellipse (2) Double Angle Identities	* HW DUE: WS 35
Tuesday	2/12	Lesson 91 & 92 Geometric Progression Probability of Either	* HW DUE: PS 90
Wednesday	2/13	Quiz #11: Lessons: 83-89	
Thursday	2/14	Lesson 93 Advanced Trig Identities Triangle Inequalities	* HW DUE: WS 36
Friday	2/15	Lesson 94 & 95 Graphs of Secant, Cosecant Graphs of Tangent, Cotangent Advanced Complex Roots	* HW DUE: PS 93
Monday	2/18	Lesson 96 & 97 Double Angle Identities Triangle Area Formula The Ambiguous Case	* HW DUE: WS 37
Tuesday	2/19	Test Review/Flex Day	
Wednesday	2/20	NO SCHOOL!	
Thursday	2/21	NO SCHOOL!	
Thursday	2/21	NO BOHOOL:	
Friday	2/22	NO SCHOOL!	

Pre-Calculus AB: Topics and Assignments Weeks 27 and 28

Monday Tuesday	2/25	Lesson 98 Change of Base Formula Contrived Log Problems Lesson 99	* HW DUE: PS 97 * HW DUE: PS 98
Tuesday	2/20	Sequence Notation $Advanced \ Sequence \ Problems$ $Arithmetic/Geometric \ Means$	× 11W DOL. 15 36
Wednesday	2/27	TEST # 11: Lessons 1-97	
Thursday	2/28	Series (104) Arithmetic Series Geometric Series Nth Partial Sums	* HW DUE: WS 38
Friday	3/1	Series (117) Infinite Series Convergent Geometric Series	* HW DUE: PS 99
Monday	3/4	Matrices (101, 105) 3 x 3 Determinants Cramer's Rule Independent Systems	* HW DUE: WS 39
Tuesday	3/5	Matrices (108) Matrix Multiplication	★ HW DUE: WS 40
Wednesday	3/6	Rationals and Primes (109, 117) Rational vs. Real Numbers Proof Number is Rational Prime vs. Relatively Prime	* HW DUE: WS 41
Thursday	3/7	Binomial Theorem (102, 112) Binomial Expansion Combinations-Pascal's Triangle Binomial Theorem	* HW DUE: WS 42
Friday	3/8	Quiz # 12: Series, Matrices	

Pre-Calculus AB: Topics and Assignments $_{\rm Week~29}$

Monday	3/11	Conic Sections (106, 123) Types of Conic Sections Translated Conic Sections General Conic Equation	* HW DUE: WS 43
Tuesday	3/12	Conic Sections (106, 123) Work on WS 44	
Wendesday	3/13	Inverse Trig Functions (110) Graphs, Domain, Range Inverse Properties	* HW DUE: WS 44
Thursday	3/14	Inverse Trig Functions (110) $Applications$	* HW DUE: WS 45
Friday	3/15	Flex day	
Monday	3/18	NO SCHOOL!	
Wionay	0/10	No solicol.	
Tuesday	3/19	NO SCHOOL!	
Wednesday	3/20	NO SCHOOL!	
		No agricori	
Thursday	3/21	NO SCHOOL!	
Friday	3/22	NO SCHOOL!	

Pre-Calculus AB: Topics and Assignments Weeks 30 and 31

Monday	3/25	Exponential Functions (88) Solving Equations Word Problems	* HW DUE: WS 46
Tuesday	3/26	Exponential Functions (88) Exponential Models Interpretations	★ HW DUE: WS 47
Wednesday	3/27	Functions (24) Continuous Functions Increasing/Decreasing Local Maximas/Minimas Function Operations	* HW DUE: WS 48
Thursday	3/28	Review for Test 12	
Friday	3/29	TEST # 12: Upto Conics	
Monday	4/1	Functions (21, 31, 32) Transformations	★ HW DUE: WS 49
		$One ext{-}to ext{-}one \ Functions$ $Inverse \ Functions$	
Tuesday	4/2		
Tuesday Wednesday	4/2 4/3	Inverse Functions	
	,	Inverse Functions AZmerit	

Pre-Calculus AB: Topics and Assignments Weeks 32 and 33

Monday	4/8	Functions (18, 44) A Function of Word Problems	* HW DUE: WS 50
Tuesday	4/9	Piecewise Functions (121) Evaluating Graphing Writing Equations	★ HW DUE: WS 51
Wednesday	4/10	Quiz# 13: Inverse Trig to Functions	
Thursday	4/11	Piecewise Functions (121) Step Functions Applications	* HW DUE: WS 52
Friday	4/12	Absolute Value Functions (22) Graphs of $ f(x) $ Graphs of $f(x)$	* HW DUE: WS 53
Monday	4/15	NO SCHOOL!	
Wonday	4/10	NO SCHOOL:	
Tuesday	4/16	NO SCHOOL!	
TT7 1 1	4/15	No dolloot I	
Wednesday	4/17	NO SCHOOL!	
Thursday	4/18	Optimization Problems $Set \ Up$ $Finding \ Max/Min \ on \ Calc$	★ HW DUE: WS 54
Friday	4/19	Optimization Problems Work on WS 55	

Pre-Calculus AB: Topics and Assignments Weeks 34 and 35

Thursday	4/22	Limits of Functions End Behavior Holes	★ HW DUE: WS 55
Tuesday	4/23	Polynomials (113, 114, 115) End Behavior Local vs. Absolute Extrema Turning Points/Zeros Graphs-Distinct Linear Factors	* HW DUE: WS 55.5
Wednesday	4/24	Quiz # 14: Functions to Optimization	
Thursday	4/25	Polynomials (114) Irreducible Factors Multiplicity of Roots Graphs	★ HW DUE: WS 56
Friday	4/26	Polynomials (117, 118) Factoring Polynomials Remainder Theorem Rational Roots Theorem	* HW DUE: WS 57
Monday	4/29	Rational Functions (122) Holes and Zeros Vertical Asymptotes Horizontal/Slant Asymptotes	* HW DUE: WS 58
Tuesday	4/30	Ractional Functions (122) End behavior Sign Chart Graphs	★ HW DUE: WS 59
Wednesday	5/1	Rational Functions (122, 125) Graphs	* HW DUE: WS 60
Thursday	5/2	Test Review	★ HW DUE: WS 61
Friday	5/3	TEST # 13: Cumulative	

Pre-Calculus AB: Topics and Assignments Weeks 36 and 37

Monday	5/6	Topic: Comp Review Complex numbers (14, 79) Functions (21, 34, 38)	
Tuesday	5/7	Topic: Comp Review Trig Functions (32, 41, 48, 66) Permutations (38) Combinations (75) Binomial Exp. (77) Sequences (99)	* HW: Comp WS 1 Comp WS 2
Wednesday	5/8	Topic: Comp Review Trig Equations (52, 60, 84) System of Inequalities (56) Completing the Square (63)	* HW: Comp WS 3 Comp WS 4
Thursday	5/9	Topic: Comp Review Logarithms (59, 98) Cramer's Rule (62, 74) Determinants (69)	* HW: Comp WS 5 Comp WS 6
Friday	5/10	Topic: Comp Review Law of Sines (72) Identities (87, 90, 96) Exponential Functions (82, 88)	* HW: Comp WS 7 Comp WS 8
Monday	5/13	Topic: Comp Review Polynomials Rational Functions	* HW: Comp WS 9 & 10
Tuesday	5/14	Topic: Comp Review	* HW: Comp WS 11 & 12
Wednesday	5/15	Topic: Comp Review	★ HW: Extras
Thursday	5/16	Topic: Comp Reivew	★ HW: Extras
Friday	5/17	Topic: Comp Review	★ HW: Extras

Pre-Calculus AB: Topics and Assignments Week 38 and 39

Monday	5/20	Comp or Final Exams	
Tuesday	5/21	Comp or Final Exams	
Wednesday	5/22	Comp or Final Exams	
Thursday	5/23	Project week	
Friday	5/24	Project week	
Monday	5/27	NO SCHOOL!	
Tuesday	5/28	Project weeek	
Wednesday	5/29	Project week	
Thursday	5/30	LAST DAY OF SCHOOL!	
Friday	5/31	No School	Have a great summer!