

Course Syllabus - Online Precalculus

Week	What to do during the week	What to turn in
Week 1	Chapter 1 <input type="checkbox"/> Lesson 1: Sets, Real Numbers, Inequalities, etc. <input type="checkbox"/> Lesson 2: Exponents and Radicals <input type="checkbox"/> Lesson 3: Polynomials, Geometry Formulas <input type="checkbox"/> Lesson 4: Equations, Quadratic Equations <input type="checkbox"/> HW 1A <input type="checkbox"/> Lesson 5: Mathematical Modeling <input type="checkbox"/> Lesson 6: Mathematical Modeling <input type="checkbox"/> HW 1B	HW 1A HW 1B
Week 2	<input type="checkbox"/> Lesson 7: Inequalities <input type="checkbox"/> Lesson 8: Polynomial and other Inequalities <input type="checkbox"/> HW 1C <input type="checkbox"/> Lesson 9: Complex Numbers <input type="checkbox"/> Lesson 10: The Number i , Negative Discriminants <input type="checkbox"/> Lesson 11: Rectangular Coordinates <input type="checkbox"/> HW 1D <input type="checkbox"/> Lesson 12: Graphing Equations	HW 1C HW 1D
Week 3	<input type="checkbox"/> Lesson 13: Circles <input type="checkbox"/> Lesson 14: Slope and Equations of Lines <input type="checkbox"/> Lesson 15: Parallel and Perpendicular Lines <input type="checkbox"/> HW 1E <input type="checkbox"/> HW 1F and 1G (Honors) <input type="checkbox"/> Chapter 1 Test	HW 1E HW 1F (Honors) HW 1G (Honors) Chapter 1 Test
Week 4	Chapter 2 <input type="checkbox"/> Lesson 1: Definition of a Function <input type="checkbox"/> Lesson 2: The Graph of a Function <input type="checkbox"/> Lesson 3: Function Notation, Difference Quotients <input type="checkbox"/> Lesson 4: Important Functions <input type="checkbox"/> Lesson 5: Piecewise Functions <input type="checkbox"/> HW 2A <input type="checkbox"/> Lesson 6: Graphing Functions <input type="checkbox"/> Lesson 7: Scaling a Graph Vertically <input type="checkbox"/> Lesson 8: Combining Graphing Procedures <input type="checkbox"/> HW 2B	HW 2A HW 2B
Week 5	<input type="checkbox"/> Lesson 9: Operations on Functions <input type="checkbox"/> Lesson 10: Composite Functions <input type="checkbox"/> HW 2C <input type="checkbox"/> Lesson 11: One-to-one Functions <input type="checkbox"/> Lesson 12: Inverse Functions <input type="checkbox"/> Lesson 13: Mathematical Models <input type="checkbox"/> Lesson 14: Mathematical Models <input type="checkbox"/> HW 2D <input type="checkbox"/> HW 2E, HW 2F (Honors) <input type="checkbox"/> Chapter 2 Test	HW 2C HW 2D HW 2E (Honors) HW 2F (Honors) Chapter 2 Test
Week 6	Chapter 3 <input type="checkbox"/> Lesson 1: Quadratic Functions <input type="checkbox"/> Lesson 2: Graphing Quadratics <input type="checkbox"/> Lesson 3: Applications <input type="checkbox"/> HW 3A <input type="checkbox"/> Lesson 4: Polynomial Functions	HW 3A

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Week 7	<input type="checkbox"/> Lesson 5: Graphing Polynomial Functions <input type="checkbox"/> Lesson 6: Analyzing Graphs of Polynomials <input type="checkbox"/> HW 3B <input type="checkbox"/> Lesson 7: Rational Functions <input type="checkbox"/> Lesson 8: Asymptotes	HW 3B
Week 8	<input type="checkbox"/> Lesson 9: Graphing Rational Functions <input type="checkbox"/> Lesson 10: Graphing Rational Functions <input type="checkbox"/> HW 3C <input type="checkbox"/> Lesson 11: Division of Polynomials <input type="checkbox"/> Lesson 12: Synthetic Division <input type="checkbox"/> HW 3D <input type="checkbox"/> Lesson 13: Zeros of a Polynomial	HW 3C HW 3D
Week 9	<input type="checkbox"/> Lesson 14: Finding Real Zeros <input type="checkbox"/> Lesson 15: Approximating Real Zeros <input type="checkbox"/> HW 3E <input type="checkbox"/> Lesson 16: The Fundamental Theorem of Algebra <input type="checkbox"/> Lesson 17: Complex Polynomials <input type="checkbox"/> HW 3F and HW 3G (Honors) <input type="checkbox"/> Chapter 3 Test	HW 3E HW 3F (Honors) HW 3G (Honors) Chapter 3 Test
Week 10	<input type="checkbox"/> Lesson 1: Exponential and Logarithmic Functions <input type="checkbox"/> Lesson 2: The Base e <input type="checkbox"/> Lesson 3: Logarithmic Functions <input type="checkbox"/> Lesson 4: Graphs of Logarithmic Function <input type="checkbox"/> HW 4A <input type="checkbox"/> Lesson 5: Properties of Logarithms <input type="checkbox"/> Lesson 6: Logarithms on a Calculator <input type="checkbox"/> HW 4B	HW 4A HW 4B
Week 11	<input type="checkbox"/> Lesson 7: Logarithmic Equations <input type="checkbox"/> Lesson 8: Exponential Equations <input type="checkbox"/> HW 4C <input type="checkbox"/> Lesson 9: Compound Interest <input type="checkbox"/> Lesson 10: Compound Interest	HW 4C
Week 12	<input type="checkbox"/> Lesson 11: Growth and Decay <input type="checkbox"/> Lesson 12: Radioactive Decay <input type="checkbox"/> HW 4D <input type="checkbox"/> Lesson 13: Logarithmic Scales <input type="checkbox"/> HW 4E (Honors) <input type="checkbox"/> Chapter 4 Test	HW 4D HW 4E (Honors) Chapter 4 Test
Week 13	Review for Exam	
Week 14	Semester 1 Exam	

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Week 15	Chapter 5 <input type="checkbox"/> Lesson 1: Angles and Degrees <input type="checkbox"/> HW 5A <input type="checkbox"/> HW 5B <input type="checkbox"/> Lesson 2: Circular Motion <input type="checkbox"/> Lesson 3: The Unit Circle <input type="checkbox"/> Lesson 4: Trig Functions of Common Angles <input type="checkbox"/> Lesson 5: Domain and Range of Trig Functions <input type="checkbox"/> HW 5C <input type="checkbox"/> Lesson 6: Fundamental Identities	HW 5A HW 5B HW 5C
Week 16	<input type="checkbox"/> Lesson 7: Right Triangle Trigonometry <input type="checkbox"/> Lesson 8: Reference Angles <input type="checkbox"/> Lesson 9: Solving Right Triangles <input type="checkbox"/> Lesson 10: Applications <input type="checkbox"/> HW 5D <input type="checkbox"/> Test on Chapter 5	HW 5D Chapter 5 Test
Week 17	Chapter 6 <input type="checkbox"/> Lesson 1: Graphs of the Sine Function <input type="checkbox"/> Lesson 2: Graphs of the Cosine Function <input type="checkbox"/> Lesson 3: Sinusoidal Graphs <input type="checkbox"/> HW 6A <input type="checkbox"/> Lesson 4: Phase Shifts <input type="checkbox"/> HW 6B <input type="checkbox"/> Lesson 5: Combining Waves <input type="checkbox"/> Lesson 6: Simple Harmonic Motion	HW 6A HW 6B
Week 18	<input type="checkbox"/> Lesson 7: Graphs of the Tangent Function <input type="checkbox"/> Lesson 8: Graphs of Cosecant, Secant, Cotangent <input type="checkbox"/> HW 6C <input type="checkbox"/> Lesson 9: Inverse Sine <input type="checkbox"/> Lesson 10: Inverse Cosine <input type="checkbox"/> Lesson 11: Inverse Tangent <input type="checkbox"/> Lesson 12: Expressions involving Trig Functions <input type="checkbox"/> HW 6D <input type="checkbox"/> Test on Chapter 6	HW 6C HW 6D Chapter 6 Test
Week 19	Chapter 7 <input type="checkbox"/> Lesson 1: Trigonometric Identities <input type="checkbox"/> HW 7A <input type="checkbox"/> Lesson 2: Sum and Difference Formulas <input type="checkbox"/> Lesson 3: Sum and Difference Formulas <input type="checkbox"/> HW 7B <input type="checkbox"/> HW 7C	HW 7A HW 7B HW 7C
Week 20	<input type="checkbox"/> Lesson 4: Double Angle Formulas <input type="checkbox"/> Lesson 5: Half Angle Formulas <input type="checkbox"/> HW 7D (Lesson 6 is deliberately omitted) <input type="checkbox"/> Lesson 7: Trigonometric Equations <input type="checkbox"/> Lesson 8: Trigonometric Equations <input type="checkbox"/> HW 7E <input type="checkbox"/> HW 7F (Honors) <input type="checkbox"/> Test on Chapter 7	HW 7D HW 7E HW 7F Chapter 7 Test

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Week	What to do during the week	What to turn in
Week 21	Chapter 8 <input type="checkbox"/> Lesson 1: The Law of Sines <input type="checkbox"/> Lesson 2: The Ambiguous Case <input type="checkbox"/> Lesson 3: Applications <input type="checkbox"/> HW 8A <input type="checkbox"/> HW 8B <input type="checkbox"/> Lesson 4: The Law of Cosines	HW 8A HW 8B
Week 22	<input type="checkbox"/> Lesson 5: The Area of a Triangle <input type="checkbox"/> HW 8C <input type="checkbox"/> Lesson 6: Polar Coordinates <input type="checkbox"/> Lesson 7: Polar and Rectangular Conversion <input type="checkbox"/> HW 8D <input type="checkbox"/> HW 8E <input type="checkbox"/> HW 8F <input type="checkbox"/> Lesson 8: Polar Equations and Graphs	HW 8C HW 8D HW 8E HW 8F
Week 23	<input type="checkbox"/> Lesson 9: Polar Equations and Graphs <input type="checkbox"/> Lesson 10: Polar Equations and Graphs <input type="checkbox"/> HW 8G <input type="checkbox"/> HW 8H <input type="checkbox"/> Lesson 11: Complex Numbers <input type="checkbox"/> Lesson 12: DeMoivre's Theorem <input type="checkbox"/> HW 8I <input type="checkbox"/> Test on Chapter 8	HW 8G HW 8H HW 8I Chapter 8 Test
Week 24	Chapter 9 <input type="checkbox"/> Lesson 1: Conic Sections <input type="checkbox"/> Lesson 2: Parabolas <input type="checkbox"/> Lesson 3: Translation of Parabolas <input type="checkbox"/> HW9A	HW 9A
Week 25	<input type="checkbox"/> Lesson 4: Ellipses <input type="checkbox"/> Lesson 5: Translation of Ellipses <input type="checkbox"/> HW 9B <input type="checkbox"/> Lesson 6: Hyperbolas <input type="checkbox"/> Lesson 7: Translation of Hyperbolas <input type="checkbox"/> HW 9C	HW 9B HW 9C
Week 26	<input type="checkbox"/> Lesson 8: The General Form of a Conic <input type="checkbox"/> Lesson 9: Parametric Equations <input type="checkbox"/> Lesson 10: Parametric Equations on a Calculator <input type="checkbox"/> Test on Chapter 9	Chapter 9 Test
Week 27	Chapter 10 <input type="checkbox"/> Lesson 1: Solving Systems <input type="checkbox"/> Lesson 2: Solving Systems <input type="checkbox"/> Lesson 3: Solving Systems <input type="checkbox"/> HW 10A	HW 10A
Week 28	<input type="checkbox"/> Lesson 4: Matrix Notation <input type="checkbox"/> Lesson 5: Echelon Form <input type="checkbox"/> HW 10B Lesson 6: Determinants <input type="checkbox"/> HW 10C	HW 10B HW 10C

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Week 29	<ul style="list-style-type: none"><input type="checkbox"/> Lesson 7: Nonlinear Systems<input type="checkbox"/> HW 10D<input type="checkbox"/> Systems of Inequalities<input type="checkbox"/> HW 10E<input type="checkbox"/> HW 10F (Honors)	HW 10D HW 10E HW 10F (Honors) Chapter 10 Test
Week 30	<p>Chapter 11</p> <ul style="list-style-type: none"><input type="checkbox"/> Lesson 1: Sequences, etc.<input type="checkbox"/> Lesson 2: Recursion<input type="checkbox"/> Lesson 3: Arithmetic Sequences and Series<input type="checkbox"/> HW 11A	HW 11A
Week 31	<ul style="list-style-type: none"><input type="checkbox"/> Lesson 4: Geometric Sequences and Series<input type="checkbox"/> HW 11B<input type="checkbox"/> Lesson 5: Mathematical Induction<input type="checkbox"/> Lesson 6: The Binomial Theorem<input type="checkbox"/> HW 11C	HW 11B HW 11C
Week 32	Second Semester Exam	