Thinkwell's Homeschool Precalculus Course Lesson Plan: 36 weeks

Welcome to Thinkwell's Homeschool Precalculus! We're thrilled that you've decided to make us part of your homeschool curriculum. This lesson plan is meant to be a guide for you and your homeschool student. Each day, you'll either

- Complete the core materials for between 1 and 4 topics (the core materials for each topic include 1 video lecture with notes and a 12-question Thinkwell Exercise, as well as Exercise Examples and Sample Problems with Solutions),
- prepare for an assessment (take a practice quiz, practice test, or practice exam), or
- take an assessment (quiz, test, or exam).

If you follow our day-by-day schedule, you'll complete the full curriculum for the course in 36 weeks. Feel free to modify and amend the plan as it best works for you. And, as always, please <u>let us know</u> what we can do to help get you up and running with Thinkwell's Homeschool Precalculus!

Week 1	
Chapter 1: Basic Algebra Review	
Assignments	Notes
<u>Week 1, Day 1</u>	
☐ 1.1.1 The Top Ten List of Mistakes (5:01)	
☐ 1.2.1 Concepts of Inequality (8:26)	
☐ 1.2.2 Inequalities and Interval Notation (10:39)	
Week 1, Day 2	
☐ 1.3.1 Properties of Absolute Value (6:41)	
☐ 1.3.2 Evaluating Absolute Value Expressions (12:10)	
☐ 1.4.1 An Introduction to Exponents (1:36)	
Week 1, Day 3	
☐ 1.4.2 Evaluating Exponential Expressions (4:19)	
☐ 1.4.3 Applying the Rules of Exponents (10:11)	
☐ 1.4.4 Evaluating Expressions with Negative Exponents (9:32)	
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☐ 1.5.1 Converting between Decimal and Scientific Notation (6:54)	
☐ 1.5.2 Converting Rational Exponents and Radicals (14:01)	
☐ Practice Quiz 1.1-1.5	
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☐ 1.6.1 Simplifying Radical Expressions (3:21)	
☐ 1.6.2 Simplifying Radical Expressions with Variables (8:45)	
☐ 1.6.3 Rationalizing Denominators (12:22)	
Week 2, Day 2	
☐ 1.7.1 Determining Components and Degree (9:31)	
☐ 1.7.2 Adding, Subtracting, and Multiplying Polynomials (7:25)	
1.7.3 Multiplying Big Products (8:31)	
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☐ 1.7.4 Using Special Products (11:28)	
☐ 1.8.1 Factoring Using the Greatest Common Factor (5:45)	
☐ 1.8.2 Factoring by Grouping (7:21)	
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☐ 1.8.4 Factoring Trinomials: The Grouping Method (14:16) Week 2, Day 5	
□ 1.9.1 Factoring Perfect Square Trinomials (5:12)	
☐ 1.9.1 Factoring Ferrect Square (1110) ☐ 1.9.2 Factoring the Difference of Two Squares (4:09)	
☐ 1.9.2 Factoring the Difference of Two Squares (4.09) ☐ 1.9.3 Factoring the Sums and Differences of Cubes (8:53)	
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☐ 1.9.4 Factoring by Any Method (13:12) ☐ Practice Quiz 1.6-1.9	
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☐ 1.9.4 Factoring by Any Method (13:12) ☐ Practice Quiz 1.6-1.9 Week 3, Day 2 ☐ Quiz 1.6-1.9 Week 3, Day 3 ☐ 1.10.1 Rational Expressions and Domain (5:07) ☐ 1.10.2 Working with Fractions (6:06)	
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☐ Practice Quiz 1.10-1.12	
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☐ 2.1.1 An Introduction to Solving Equations (9:28)	
☐ 2.1.2 Solving a Linear Equation (7:56)	
☐ 2.1.3 Solving a Linear Equation with Rationals (14:38)	
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2.4.1 Solving Quadratics by Factoring (11:49)	
☐ 2.4.1 Solving Quadratics by Factoring (11.49) ☐ 2.4.2 Solving Quadratics by Completing the Square (8:47)	
☐ 2.4.3 Completing the Square: Another Example (4:39)	
Week 6, Day 2	
2.5.1 Proving the Quadratic Formula (7:14)2.5.2 Using the Quadratic Formula (9:23)	
 2.5.3 Predicting the Type of Solutions Using the Discriminant 	
(8:41)	
Week 6, Day 3	
☐ 2.6.1 Solving for a Squared Variable (5:58)	
☐ 2.6.2 Finding Real Number Restrictions (6:24)	
☐ 2.6.3 Solving Fancy Quadratics (7:00)	
Week 6, Day 4	
☐ 2.7.1 An Introduction to Word Problems with Quadratics (0:42)	
2.7.2 Solving a Quadratic Geometry Problem (8:55)	
☐ 2.7.3 Solving with the Pythagorean Theorem (8:16)	
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2.7.4 The Pythagorean Theorem: Another Example (5:54)	
☐ 2.8.1 Solving a Motion Problem (19:13)	
☐ 2.8.2 Solving a Projectile Problem (9:07)	
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2.8.3 Solving Other Problems (9:04)	
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☐ 2.9.1 Determining Extraneous Roots (3:53)	
☐ 2.9.2 Solving an Equation Containing a Radical (12:18)	
☐ 2.9.3 Solving an Equation with Two Radicals (11:21)	
☐ 2.9.4 Solving an Equation with Rational Exponents (13:30)	
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☐ 2.10.1 An Introduction to Variation (5:56)	
2.10.2 Direct Proportion (5:02)	
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☐ 2.11.1 An Introduction to Solving Inequalities (8:29)	
☐ 2.11.2 Solving Compound Inequalities (8:44)	
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☐ 2.12.2 Solving Quadratic Inequalities: Another Example (8:31)	
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☐ 2.13.1 Solving Rational Inequalities (17:55)	
☐ 2.13.2 Solving Rational Inequalities: Another Example (8:49)	
☐ 2.13.3 Determining the Domains of Expressions with Radicals	
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☐ 2.14.1 Matching Number Lines with Absolute Values (10:49)	
☐ 2.14.2 Solving Absolute Value Equations (7:21)	
☐ 2.14.3 Solving Equations with Two Absolute Value Expressions	
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☐ 2.14.5 Solving Absolute Value Inequalities: More Examples (6:11)	
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☐ 3.1.2 Thinking Visually (2:55)	
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☐ 3.2.2 Finding the Second Endpoint of a Segment (5:40)	

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3.3.2 Triangles (5:26)	
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□ 3.4.2 Decoding the Circle Formula (4:31)□ 3.4.3 Finding the Center and Radius of a Circle (9:37)	
□ 3.4.4 Solving Word Problems Involving Circles (11:00)	
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□ 3.5.1 Graphing Equations by Locating Points (13:38)	
☐ 3.5.2 Finding the <i>x</i> - and <i>y</i> -Intercepts of an Equation (13:13)	
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□ 3.6.1 Functions and the Vertical Line Test (7:07)	
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☐ 3.6.3 Function Notation and Finding Function Values (8:53)	
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☐ 3.10.5 Slope for Parallel and Perpendicular Lines (9:52)	
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☐ 3.11.1 Constructing Linear Function Models of Data (6:17)	
☐ 3.11.2 Linear Cost and Revenue Functions (9:18)	
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☐ 3.12.1 Graphing Some Important Functions (10:25)	
☐ 3.12.2 Graphing Piecewise-Defined Functions (10:36)	
☐ 3.12.3 Matching Equations with Their Graphs (11:11)	
Week 12, Day 4	
☐ 3.13.1 The Greatest Integer Function (8:58)	
☐ 3.13.2 Graphing the Greatest Integer Function (6:59)	
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☐ 3.14.2 Nice-Looking Parabolas (6:47)		
☐ 3.14.3 Using Discriminants to Graph Parabolas (8:02)		
☐ 3.14.4 Maximum Height in the Real World (8:15)		
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☐ 3.15.1 Finding the Vertex by Completing the Square (6:06)		
☐ 3.15.2 Using the Vertex to Write the Quadratic Equation (9:09)		
☐ 3.15.3 Finding the Maximum or Minimum of a Quadratic (6:58)		
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☐ 3.15.4 Graphing Parabolas (14:35)		
☐ 3.16.1 Shifting Curves along Axes (4:17)		
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☐ 3.16.3 Stretching a Graph (10:18)		
☐ 3.16.4 Graphing Quadratics Using Patterns (3:18)		
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☐ 3.17.1 Determining Symmetry (11:15)		
☐ 3.17.2 Reflections (6:27)		
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☐ 3.18.2 Composite Functions (9:37)	
☐ 3.18.3 Components of Composite Functions (8:11)	
☐ 3.18.4 Finding Functions That Form a Given Composite (6:24)	
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☐ 3.18.5 Finding the Difference Quotient of a Function (4:21)	
☐ 3.18.6 Calculating the Average Rate of Change (6:48)	
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☐ 4.6.1 Finding Polynomials Given Zeros, Degree, and One Point (11:19)

☐ 4.6.2 Finding all Zeros and Multiplicities of a Polynomial (8:09)

☐ 4.6.3 Finding the Real Zeros for a Polynomial (8:16)

☐ 4.6.4 Using Descartes' Rule of Signs (6:50)

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4.7.3 Graphing Polynomial Functions: Another Example (17:06)	
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☐ 5.2.2 Finding the Inverse of a Function with Higher Powers (3:08)	
☐ 5.3.1 An Introduction to Exponential Functions (14:06)	
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☐ 5.3.2 Graphing Exponential Functions: Useful Patterns (8:55)	
☐ 5.3.3 Graphing Exponential Functions: More Examples (7:12)	
☐ 5.4.1 Using Properties of Exponents to Solve Exponential Equations	
(6:55)	
Week 18, Day 3	
☐ 5.4.2 Finding Present Value and Future Value (8:39)	
☐ 5.4.3 Finding an Interest Rate to Match Given Goals (4:11)	
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\Box 5.5.1 e (6:46)	
☐ 5.5.2 Applying Exponential Functions (4:30)	
☐ 5.6.1 An Introduction to Logarithmic Functions (7:19)	
☐ 5.6.2 Converting between Exponential and Logarithmic Functions	
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\Box 5.7.2 Solving for <i>x</i> in Logarithmic Equations (6:53)	
☐ 5.7.3 Graphing Logarithmic Functions (10:05)	
☐ 5.7.4 Matching Logarithmic Functions with Their Graphs (8:48)	
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☐ 5.8.1 Properties of Logarithms (8:51)	
☐ 5.8.2 Expanding a Logarithmic Expression Using Properties (10:40)	
☐ 5.8.3 Combining Logarithmic Expressions (9:16)	
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☐ 5.9.1 Evaluating Logarithmic Functions Using a Calculator (5:13)	
☐ 5.9.2 Using the Change of Base Formula (9:27)	
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☐ Quiz 5.5-5.9 Week 19, Day 5 ☐ 5.10.1 The Richter Scale (3:21)	
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☐ 5.11.3 Solving Equations with Logarithmic Exponents (7:04)	
☐ 5.12.1 Compound Interest (4:39)	
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☐ 5.12.2 Predicting Change (4:36)	
☐ 5.13.1 An Introduction to Exponential Growth and Decay (5:34)	
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5.13.3 Newton's Law of Cooling (10:03)	
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☐ 6.1.4 Converting between Degrees and Radians (10:04)	
☐ 6.1.5 Using the Arc Length Formula (7:23)	
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☐ 6.2.2 Evaluating Trigonometric Functions for an Angle in a Right	
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☐ 6.2.4 Using Trigonometric Functions to Find Unknown Sides of Right	
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☐ 6.2.5 Finding the Height of a Building (4:20)	
☐ 6.3.1 Evaluating Trigonometric Functions for an Angle in the	
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☐ 6.3.2 Evaluating Trigonometric Functions Using the Reference Angle	
(11:19)	
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☐ 6.3.3 Finding the Value of Trigonometric Functions Given Information	
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☐ 6.3.4 Trigonometric Functions of Important Angles (9:37)	
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 6.4.1 An Introduction to the Graphs of Sine and Cosine Functions (10:13) 	
☐ 6.4.2 Graphing Sine or Cosine Functions with Different Coefficients	
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☐ 6.4.3 Finding Maximum and Minimum Values and Zeros of Sine and	
Cosine (6:49)	
Week 23, Day 2	
☐ 6.4.4 Solving Word Problems Involving Sine or Cosine Functions (4:24)	
☐ 6.5.1 Graphing Sine and Cosine Functions with Phase Shifts (7:20)	
☐ 6.5.2 Fancy Graphing: Changes in Period, Amplitude, Vertical Shift,	
and Phase Shift (8:29)	
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☐ 6.6.1 Graphing the Tangent, Secant, Cosecant, and Cotangent	
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☐ 6.6.2 Fancy Graphing: Tangent, Secant, Cosecant, and Cotangent	
(11:22)	
☐ 6.6.3 Identifying a Trigonometric Function from its Graph (4:57)	
Week 23, Day 4	
☐ 6.7.1 An Introduction to Inverse Trigonometric Functions (9:30)	
☐ 6.7.2 Evaluating Inverse Trigonometric Functions (8:24)	
☐ 6.7.3 Solving an Equation Involving an Inverse Trigonometric Function	
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☐ 6.7.4 Evaluating the Composition of a Trigonometric Function and Its	
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☐ 6.7.5 Applying Trigonometric Functions: Is He Speeding? (10:56)	
☐ Practice Quiz 6.4-6.7	
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☐ 7.1.1 Fundamental Trigonometric Identities (7:24)	
☐ 7.1.2 Finding All Function Values (4:52)	
☐ 7.2.1 Simplifying a Trigonometric Expression Using Trigonometric	
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☐ 7.2.2 Simplifying Trigonometric Expressions Involving Fractions (8:26)	
☐ 7.2.3 Simplifying Products of Binomials Involving Trigonometric	
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Neither (10:26)	
☐ 7.3.1 Proving an Identity (10:08)	
☐ 7.3.2 Proving an Identity: Other Examples (6:15)	

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☐ 7.4.1 Solving Trigonometric Equations (9:08)	
☐ 7.4.2 Solving Trigonometric Equations by Factoring (10:37)	
☐ 7.4.3 Solving Trigonometric Equations with Coefficients in the	
Argument (21:20)	
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7.4.5 Solving Word Problems Involving Trigonometric Equations (8:33)	
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☐ 7.5.2 Using Sum and Difference Identities (3:12)	
☐ 7.5.3 Using Sum and Difference Identities to Simplify an Expression	
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☐ 7.6.3 Solving Word Problems Involving Multiple-Angle Identities (8:42)	
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☐ 7.7.1 Using a Cofunction Identity (9:26)	
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☐ 7.7.3 Using Half-Angle Identities to Solve a Trigonometric Equation	
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☐ 8.1.3 Solving a Triangle (SAS): Another Example (12:18)	
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☐ 8.2.4 Heron's Formula (7:23)	
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☐ 8.3.3 Vector Addition and Scalar Multiplication (9:26)	
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□ 8.4.2 Finding a Unit Vector (5:25)	
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