

Pre-calculus Lesson Plan

Week of: May 15	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Review for semester exam	•	•	•
Tuesday	Semester exams	•	•	•
Wednesday	Semester exams	•	•	•
Thursday		•	•	•
Friday		•	•	•

Week of: May 8	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	12.4 Derivatives	<ul style="list-style-type: none"> • Find instantaneous rates of change by calculating derivatives • Use the product and quotient rules to calculate derivatives 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Tuesday	12.4 Derivatives	<ul style="list-style-type: none"> • Find instantaneous rates of change by calculating derivatives • Use the product and quotient rules to calculate derivatives 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Wednesday	12.5 Area under a curve and integration	<ul style="list-style-type: none"> • Approximate the area under a curve using rectangles • Approximate the area under a curve using definite integrals and integration 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Thursday	12.5 Area under a curve and integration	<ul style="list-style-type: none"> • Approximate the area under a curve using rectangles • Approximate the area under a curve using definite integrals and integration 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Friday	Quiz 12.4-12.5	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> •

Week of: May 1	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Quiz 12.1-12.2	•	•	•
Tuesday	12.3 Tangent lines and velocity	<ul style="list-style-type: none"> • Find instantaneous rates of change by calculating slopes of tangent lines • Find average and instantaneous velocity 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Wednesday	12.3 Tangent lines and velocity	<ul style="list-style-type: none"> • Find instantaneous rates of change by calculating slopes of tangent lines • Find average and instantaneous velocity 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Thursday	Test 12.1-12.3	•	•	•
Friday	12.4 Derivatives	<ul style="list-style-type: none"> • Find instantaneous rates of change by calculating derivatives • Use the product and quotient rules to calculate derivatives 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide

Week of: April 24	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Chapter 7 test	•	•	•
Tuesday	12.1 estimating limits graphically	<ul style="list-style-type: none"> • Estimate limits of functions at fixed values • Estimate limits of functions at infinity 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Wednesday	12.1 estimating limits graphically	<ul style="list-style-type: none"> • Estimate limits of functions at fixed values • Estimate limits of functions at infinity 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Thursday	12.2 evaluating limits algebraically	<ul style="list-style-type: none"> • Evaluate limits of polynomial functions at selected points • Evaluate limits of polynomial functions at infinity 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Friday	12.2 evaluating limits algebraically	<ul style="list-style-type: none"> • Evaluate limits of polynomial functions at selected points • Evaluate limits of polynomial functions at infinity 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide

Week of: April 17	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	No School	•	•	•
Tuesday	7.5 Parametric Equations	<ul style="list-style-type: none"> • Graph parametric equations. • Solve problems related to the motion of projectiles. 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Wednesday	7.5 Parametric Equations	<ul style="list-style-type: none"> • Graph parametric equations. • Solve problems related to the motion of projectiles. 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Thursday	Review	•	•	•
Friday	Chapter 7 test		•	•

Week of: April 10	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	7.4 Rotations and Conic Sections	<ul style="list-style-type: none"> • Find rotation of axes to write equations of rotated conic sections • Graph rotated conic sections 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Tuesday	7.5 Parametric Equations	<ul style="list-style-type: none"> • Graph parametric equations. • Solve problems related to the motion of projectiles. 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Wednesday	7.5 Parametric Equations	<ul style="list-style-type: none"> • Graph parametric equations. • Solve problems related to the motion of projectiles. 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Thursday	Chapter 7 test	•	•	•
Friday	No School		•	•

Week of: April 3	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Students out for track	•	•	•
Tuesday	Homework day (7.1-7.3)	•	•	•
Wednesday	7.4 Rotations and Conic Sections	<ul style="list-style-type: none"> • Find rotation of axes to write equations of rotated conic sections • Graph rotated conic sections 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Thursday	7.4 Rotations and Conic Sections	•	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Friday	No School		•	•

Week of: March 27	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	7.2 Ellipse	•	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	• Per homework
Tuesday	Quiz 7.1-7.2	•	•	•
Wednesday	7.3 Hyperbola	<ul style="list-style-type: none"> • Analyze and graph equations of hyperbolas. • Use equations to identify types of conic sections. 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	• Per homework
Thursday		•	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	• Per homework
Friday	Test 7.1-7.3		•	•

Week of: March 20	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	7.1 Parabolas	<ul style="list-style-type: none"> Analyze and graph equations of parabolas Write equations of parabolas 	<ul style="list-style-type: none"> Teacher led examples Student practice 	<ul style="list-style-type: none"> Per homework guide
Tuesday	7.1 Parabolas	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Teacher led examples Student practice 	<ul style="list-style-type: none"> Per homework guide
Wednesday	7.2 Ellipses and Circles	<ul style="list-style-type: none"> Analyze and graph equations of ellipses and circles. Use equations to identify ellipses and circles. 	<ul style="list-style-type: none"> Teacher led examples Student practice 	<ul style="list-style-type: none"> Per homework guide
Thursday	7.2 Ellipses and Circles	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Teacher led examples Student practice 	<ul style="list-style-type: none"> Per homework guide
Friday	Homework day		<ul style="list-style-type: none"> 	<ul style="list-style-type: none">

Week of: March 13	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Review/homework day	•	•	•
Tuesday	Test (6.4-6.5)	•	•	• Chapter 6 homework due
Wednesday	7.1 Parabolas	<ul style="list-style-type: none"> • Analyze and graph equations of parabolas • Write equations of parabolas 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	• Per homework guide
Thursday	7.1 Parabolas	•	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	• Per homework guide
Friday	No School	•	•	•

Week of: March 6	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	6.4 partial Fractions	<ul style="list-style-type: none"> • Write partial fraction decompositions of rational expressions with linear factors in the denominator. • Write partial fraction decompositions of rational expressions with prime quadratic factors in the denominator. 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Tuesday	6.4 Partial Fractions	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Wednesday	6.5 Linear Optimization	<ul style="list-style-type: none"> • Use linear programming to solve applications. • Recognize situations in which there are no solutions or more than one solution of a linear programming application. • 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Thursday	6.5 Linear Optimization	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Friday	No School	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> •

Week of: February 27	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Quiz 6.1-6.2	•	<ul style="list-style-type: none"> Review homework 6.1 and 6.2 quiz 	•
Tuesday	6.3 Solving Linear Systems Using Inverses and Cramer's Rule	<ul style="list-style-type: none"> Solve systems of linear equations using inverse matrices. Solve systems of linear equations using Cramer's Rule. 	<ul style="list-style-type: none"> Teacher led examples Student practice 	• Per homework guide
Wednesday	6.3 Solving Linear Systems Using Inverses and Cramer's Rule	•	<ul style="list-style-type: none"> Teacher led examples Student practice 	• Per homework guide
Thursday	6.4 partial Fractions	<ul style="list-style-type: none"> Write partial fraction decompositions of rational expressions with linear factors in the denominator. Write partial fraction decompositions of rational expressions with prime quadratic factors in the denominator. 	<ul style="list-style-type: none"> Teacher led examples Student practice 	• Per homework guide
Friday	6.4 Partial Fractions	•	<ul style="list-style-type: none"> Teacher led examples Student practice 	• Per homework guide

Week of: February 20	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	No School – President's Day		•	•

Tuesday	6.2 Matrix Multiplication, Inverses, and Determinants	<ul style="list-style-type: none"> • Multiply matrices. • Find determinants and inverses of 2×2 and 3×3 matrices. 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Wednesday	6.2 Matrix Multiplication, Inverses, and Determinants		<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Thursday	6.3 Solving Linear Systems Using Inverses and Cramer's Rule	<ul style="list-style-type: none"> • Solve systems of linear equations using inverse matrices. • Solve systems of linear equations using Cramer's Rule. 	<ul style="list-style-type: none"> • Teacher led examples • Student practice 	<ul style="list-style-type: none"> • Per homework guide
Friday	6.3 Solving Linear Systems Using Inverses and Cramer's Rule	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Teacher led examples • Student practice • Quiz next class 	<ul style="list-style-type: none"> • Per homework guide

Week of: February 13	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Blog Project Workday	•	•	<ul style="list-style-type: none"> Find an example of sine, cosine, or tangent function in your life and use do a trig regression to determine its equation. Use your knowledge of trig functions to explain how the different components of the equation affect its position on the graph.
Tuesday	6.1 Multivariable Linear Systems and row operations	<ul style="list-style-type: none"> Solve systems of linear equations using matrices and Gaussian elimination Solve systems of linear equations using matrices and Gauss-Jordan elimination 	<ul style="list-style-type: none"> Teacher led examples Student practice 	<ul style="list-style-type: none"> Per homework guide
Wednesday	6.1 Multivariable Linear Systems and row operations		<ul style="list-style-type: none"> Teacher led examples Student practice 	<ul style="list-style-type: none"> Per homework guide
Thursday	6.1 Multivariable Linear Systems and row operations	•	<ul style="list-style-type: none"> Teacher led examples Student practice 	<ul style="list-style-type: none"> Per homework guide
Friday	No School	•	•	•

Week of: February 6	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	4.7 Laws of Sine and Cosine	<ul style="list-style-type: none"> • Understand and apply the Law of sine • Understand and apply the Law of cosine 	<ul style="list-style-type: none"> • Examples and student practice 	<ul style="list-style-type: none"> • Book practice
Tuesday	4.7 Laws of Sine and Cosine	•	•	•
Wednesday	review			•
Thursday	Test 4.5-4.7	•	•	•
Friday	Blog project			<ul style="list-style-type: none"> • Find an example of sine, cosine, or tangent function in your life and use do a trig regression to determine it's equation. Use your knowledge of trig functions to explain how the different components of the equation affect its position on the graph.

Week of: January 30	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	4.5 Graphing other trig functions	<ul style="list-style-type: none"> Graph tangent and reciprocal trigonometric functions. Graph damped trigonometric functions. 	<ul style="list-style-type: none"> PPT with examples Student solved problems 	<ul style="list-style-type: none"> Per homework guide
Tuesday	4.5 Graphing other trig functions	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
Wednesday	4.6 Inverse Trig functions	<ul style="list-style-type: none"> Evaluate and graph inverse trigonometric functions. Find compositions of trigonometric functions. 	<ul style="list-style-type: none"> PPT with examples Student solved problems	<ul style="list-style-type: none"> Per homework guide
Thursday	4.6 Inverse Trig functions	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
Friday	Homework/question day			<ul style="list-style-type: none">

Week of: January 23	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Homework Day/Review	•	<ul style="list-style-type: none"> • Go over 4.3 & 4.4 homework • Answer concept questions for 4.1-4.4 	•
Tuesday	Test 4.1-4.4	•	•	•
Wednesday	4.5 Graphing other trig functions	<ul style="list-style-type: none"> • Graph tangent and reciprocal trigonometric functions. • Graph damped trigonometric functions. 	<ul style="list-style-type: none"> • PPT with examples • Student solved problems 	• Per homework guide
Thursday	4.5 Graphing other trig functions	<ul style="list-style-type: none"> • Graph tangent and reciprocal trigonometric functions. • Graph damped trigonometric functions. 	<ul style="list-style-type: none"> • PPT with examples • Student solved problems 	• Per homework guide
Friday	4.6 Inverse Trig functions	<ul style="list-style-type: none"> • Evaluate and graph inverse trigonometric functions. • Find compositions of trigonometric functions. 	<ul style="list-style-type: none"> • PPT with examples Student solved problems	• Per homework guide

Week of: January 16	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	No school	•	•	•
Tuesday	4.3 Trigonometric functions on the unit circle	<ul style="list-style-type: none"> • Find values of trigonometric functions for any angles • Find values of trigonometric functions using the unit circle 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • Student work 	<ul style="list-style-type: none"> • Per homework guide
Wednesday	4.4 Graphing Sine and Cosine Functions	<ul style="list-style-type: none"> • Graph transformations of the sine and cosine functions. • Use sinusoidal functions to solve problems. 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • Student work 	<ul style="list-style-type: none"> • Per homework guide
Thursday	4.4 Graphing Sine and Cosine Functions	<ul style="list-style-type: none"> • Graph transformations of the sine and cosine functions. • Use sinusoidal functions to solve problems. 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • Student work 	<ul style="list-style-type: none"> • Per homework guide
Friday	Graphing the sine function parametrically	<ul style="list-style-type: none"> • Use a graphing calculator and parametric equations to graph the sine function and its inverse 	<ul style="list-style-type: none"> • Graphing lab 	<ul style="list-style-type: none"> • Per homework guide

Week of: January 9	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	4.2 Degrees and Radians	<ul style="list-style-type: none"> • Convert degree measures of angles to radian measures and vice versa • Use angle measures to solve real-world problems 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • Student work 	<ul style="list-style-type: none"> • Per homework guide
Tuesday	4.3 Trigonometric functions on the unit circle	<ul style="list-style-type: none"> • Find values of trigonometric functions for any angles • Find values of trigonometric functions using the unit circle 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • Student work 	<ul style="list-style-type: none"> • Per homework guide
Wednesday	4.3 Trigonometric functions on the unit circle	<ul style="list-style-type: none"> • Find values of trigonometric functions for any angles • Find values of trigonometric functions using the unit circle 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • Student work 	<ul style="list-style-type: none"> • Per homework guide
Thursday	Graphing the sine function parametrically	<ul style="list-style-type: none"> • Use a graphing calculator and parametric equations to graph the sine function and its inverse 	<ul style="list-style-type: none"> • Graphing lab • Friday homework questions 	<ul style="list-style-type: none"> • Per homework guide
Friday	No School	•	•	•

Week of: January 2	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	No School Winter break	•	•	•
Tuesday	4.1Right Triangle Trigonometry	<ul style="list-style-type: none"> • Find values of trigonometric functions for acute angles of right triangles. • Solve right triangles 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • Student work 	<ul style="list-style-type: none"> • Per homework guide
Wednesday	4.1Right Triangle Trigonometry	•	<ul style="list-style-type: none"> • Ppt • Teacher led examples • Student work 	<ul style="list-style-type: none"> • Per homework guide
Thursday	4.1Right Triangle Trigonometry	•	<ul style="list-style-type: none"> • Ppt • Teacher led examples • Student work 	<ul style="list-style-type: none"> • Per homework guide
Friday	4.2 Degrees and Radians	<ul style="list-style-type: none"> • Convert degree measures of angles to radian measures and vice versa • Use angle measures to solve real-world problems 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • Student work 	<ul style="list-style-type: none"> • Per homework guide

Week of: December 19	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Semester Exam Review	•	•	•
Tuesday	Semester Exam Review	•	•	•
Wednesday	Semester Exams	•	•	•
Thursday	Semester Exams	•	•	•
Friday	Winter Break	•	•	•

Week of: December 12	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Review	•	<ul style="list-style-type: none"> • Clarify homework • Review/clarify topics 	<ul style="list-style-type: none"> • 3.4 and 3.5 homework due today • study
Tuesday	Test 3.4-3.5	•	•	•
Wednesday	Blog Project Research Day	<ul style="list-style-type: none"> • Apply exponential growth and decay to create models for real world situations. 	•	•
Thursday	Blog Project	•	•	•
Friday	Blog Project (If needed)	•	•	•

Week of: December 5	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	3.4 Exponential and Logarithmic Equations	<ul style="list-style-type: none"> • Apply the One-to-One Property of Exponential Functions to solve equations. • Apply the One-to-One Property of Logarithmic Functions to solve equations. 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • In class student practice 	Homework per chapter 3 assignments
Tuesday	3.4 Exponential and Logarithmic Equations	<ul style="list-style-type: none"> • Apply the One-to-One Property of Exponential Functions to solve equations. • Apply the One-to-One Property of Logarithmic Functions to solve equations. 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • In class student practice 	Homework per chapter 3 assignments
Wednesday	3.4 Solve exponential and logarithmic inequalities	<ul style="list-style-type: none"> • Use tables and graphs to solve inequalities 	<ul style="list-style-type: none"> • Graphing calculator activity 	worksheet
Thursday	3.5 Model with Nonlinear Regression	<ul style="list-style-type: none"> • Model data using exponential, logarithmic, and logistic functions. • Linearize and analyze data. 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • In class student practice 	Homework per chapter 3 assignments
Friday	3.5 Model with Nonlinear Regression	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • In class student practice 	Homework per chapter 3 assignments

Week of: November 28	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	3.3 Properties of Logarithms	<ul style="list-style-type: none"> • Apply properties of logarithms • Apply the Change of Base Formula 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • In class student practice 	
Tuesday	3.3 Properties of Logarithms	<ul style="list-style-type: none"> • 		3.3 pg 183 # 3, 18, 21, 26, 37, 43, 54, 60, 112
Wednesday	Review 3.1-3.3	<ul style="list-style-type: none"> • 		
Thursday	Test 3.1-3.3	<ul style="list-style-type: none"> • 		Homework due for 3.1-3.3
Friday	3.4 Exponential and Logarithmic Equations	<ul style="list-style-type: none"> • Apply the One-to-One Property of Exponential Functions to solve equations. • Apply the One-to-One Property of Logarithmic Functions to solve equations. 	<ul style="list-style-type: none"> • Ppt • Teacher led examples • In class student practice 	Homework per chapter 3 assignments

Week of: November 21	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	3.2 Logarithmic Functions	<ul style="list-style-type: none"> • Evaluate expressions involving logarithms • Sketch and analyze graphs of logarithmic functions 	<ul style="list-style-type: none"> • Powerpoint • Teacher lead examples 	<ul style="list-style-type: none"> • As assigned
Tuesday	Quiz 3.1-3.2	•	•	•
Wednesday		•		
Thursday		•		
Friday		•	•	•

Week of: November 14	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	3.1 Exponential Functions	<ul style="list-style-type: none"> Evaluate, analyze, and graph exponential functions. Solve problems involving exponential growth and decay. 	<ul style="list-style-type: none"> Powerpoint Teacher lead examples Graphing activity 	<ul style="list-style-type: none"> As assigned
Tuesday	3.1 Exponential Functions	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Powerpoint Teacher lead examples Graphing activity 	<ul style="list-style-type: none"> As assigned
Wednesday	3.2 Logarithmic Functions	<ul style="list-style-type: none"> Evaluate expressions involving logarithms Sketch and analyze graphs of logarithmic functions 	<ul style="list-style-type: none"> Powerpoint Teacher lead examples 	<ul style="list-style-type: none"> As assigned
Thursday	3.2 Logarithmic Functions	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Powerpoint Teacher lead examples 	<ul style="list-style-type: none"> As assigned
Friday	review Quiz 3.1-3.2	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">

Week of: November 7	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Math of the Presidential Election	<ul style="list-style-type: none"> Understand how polynomial equations are used to predict election outcomes 	<ul style="list-style-type: none"> Research data on past elections to predict how swing states will vote in this election 	<ul style="list-style-type: none">
Tuesday	Math of the Presidential Election	<ul style="list-style-type: none"> Understand how polynomial equations are used to predict election outcomes 	<ul style="list-style-type: none"> Research data on past elections to predict how swing states will vote in this election 	<ul style="list-style-type: none">
Wednesday	Project Work Day	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Finalize blog post #2 Submit project 	<ul style="list-style-type: none">
Thursday	Football finals	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">
Friday	Look over chapter 3 Determine assessment schedule	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">

Week of: October 31	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	2.6 Nonlinear inequities	<ul style="list-style-type: none"> • solve polynomial inequalities • solve rational inequalities 	<ul style="list-style-type: none"> • Ppt • Examples 	<ul style="list-style-type: none"> • problems from online book
Tuesday	Homework questions	•	•	•
Wednesday	review	•	•	• Study guide
Thursday	Chapter 2 test	•	•	•
Friday	Area under a curve	<ul style="list-style-type: none"> • Approximate the area between a curve and the x-axis 	<ul style="list-style-type: none"> • Exploration/connection 	•

Week of: October 24	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	2.4 Zeros of Polynomial Functions	<ul style="list-style-type: none"> Find real zeros of polynomial functions. Find complex zeros of polynomial functions. 	<ul style="list-style-type: none"> Ppt examples 	<ul style="list-style-type: none"> problems from online book
Tuesday	2.4 Zeros of Polynomial Functions	<ul style="list-style-type: none"> Find real zeros of polynomial functions. Find complex zeros of polynomial functions. 	<ul style="list-style-type: none"> Ppt Examples Next blog post 	<ul style="list-style-type: none"> problems from online book
Wednesday	2.5 Rational Functions	<ul style="list-style-type: none"> analyze and graph rational functions solve rational functions 	<ul style="list-style-type: none"> Ppt Examples exploration 	<ul style="list-style-type: none"> problems from online book
Thursday	2.5 Rational Functions	<ul style="list-style-type: none"> analyze and graph rational functions solve rational functions 	<ul style="list-style-type: none"> Ppt Examples exploration 	<ul style="list-style-type: none"> problems from online book
Friday	2.6 Nonlinear inequities	<ul style="list-style-type: none"> solve polynomial inequalities solve rational inequalities 	<ul style="list-style-type: none"> Ppt Examples Graphing activity 	<ul style="list-style-type: none"> problems from online book

Week of: October 17	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	No School	•	•	•
Tuesday	2.3 The Remainder and Factor Theorems	<ul style="list-style-type: none"> • Divide polynomials using long division and synthetic division. • Use the Remainder and Factor Theorems. 	<ul style="list-style-type: none"> • Ppt • examples 	<ul style="list-style-type: none"> • problems from online book
Wednesday	2.3 The Remainder and Factor Theorems	<ul style="list-style-type: none"> • Divide polynomials using long division and synthetic division. • Use the Remainder and Factor Theorems. 	<ul style="list-style-type: none"> • Ppt • examples 	<ul style="list-style-type: none"> • problems from online book
Thursday	2.1-2.3 Quiz	•	•	•
Friday	2.4 Zeros of Polynomial Functions	<ul style="list-style-type: none"> • Find real zeros of polynomial functions. • Find complex zeros of polynomial functions. 	<ul style="list-style-type: none"> • Ppt • examples 	<ul style="list-style-type: none"> • problems from online book

Week of: October 10	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Native American Day – No School	•	•	•
Tuesday	2.1 Power and Radical Functions	<ul style="list-style-type: none"> • Graph and analyze power functions. • Graph and analyze radical functions, and solve radical equations. 	<ul style="list-style-type: none"> • Ppt with examples 	<ul style="list-style-type: none"> • Online book
Wednesday	2.1 Power and Radical Functions	<ul style="list-style-type: none"> • Graph and analyze power functions. • Graph and analyze radical functions, and solve radical equations. 	<ul style="list-style-type: none"> • Ppt with examples 	<ul style="list-style-type: none"> • Online book
Thursday	2.2 Polynomial Functions	<ul style="list-style-type: none"> • Graph polynomial functions. • Model real-world data with polynomial functions. 	<ul style="list-style-type: none"> • Ppt with examples 	<ul style="list-style-type: none"> • Online book
Friday	2.2 Polynomial Functions	<ul style="list-style-type: none"> • Graph polynomial functions. • Model real-world data with polynomial functions. 	<ul style="list-style-type: none"> • Ppt with examples • Time to go over homework 	<ul style="list-style-type: none"> • Online book

Week of: October 3	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	1.7 Inverse Relations and Functions	<ul style="list-style-type: none"> • Use the graphs of functions to determine if they have inverse functions. • Find inverse functions algebraically and graphically. 	<ul style="list-style-type: none"> • Investigation 	<ul style="list-style-type: none"> • From online book
Tuesday	1.7 Inverse Relations and Functions	<ul style="list-style-type: none"> • Use the graphs of functions to determine if they have inverse functions. • Find inverse functions algebraically and graphically. 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • From online book
Wednesday	1.7 Inverse Relations and Functions	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • practice 	<ul style="list-style-type: none"> • from online book
Thursday	Overview of chapter 2	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Look through chapter 2 • Determine how chapter 2 will be assessed • Project topic for chapter 2 	<ul style="list-style-type: none"> • From online book
Friday		<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> •

Week of: September 26	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Composite functions	<ul style="list-style-type: none"> • Perform operations with functions. • Find compositions of functions. 	<ul style="list-style-type: none"> • Finish packet 	<ul style="list-style-type: none"> • From online book
Tuesday	Inverse Function Work Day: Photo Project	<ul style="list-style-type: none"> • Use the graphs of functions to determine if they have inverse functions. • Find inverse functions algebraically and graphically. 	<ul style="list-style-type: none"> • Exploration activity • Upload photo to desmos 	<ul style="list-style-type: none"> • From online book
Wednesday	Inverse Functions Photo Project Due	<ul style="list-style-type: none"> • Use the graphs of functions to determine if they have inverse functions. • Find inverse functions algebraically and graphically. 	<ul style="list-style-type: none"> • Notes • Practice activity 	<ul style="list-style-type: none"> • From online book
Thursday	Review	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Chapter review student choice 	<ul style="list-style-type: none"> • From online book
Friday	Chapter 1 test	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • From online book

Week of: September 19	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Complete 1.4 1.5 Parent Functions and Transformations	<ul style="list-style-type: none"> Identify, graph, and describe parent functions. Identify and graph transformations of parent functions 	<ul style="list-style-type: none"> Ppt with examples and practice desmos 	<ul style="list-style-type: none"> From online book
Tuesday	1.5 Parent Functions and Transformations	<ul style="list-style-type: none"> Identify, graph, and describe parent functions. Identify and graph transformations of parent functions 	<ul style="list-style-type: none"> Ppt with examples and practice 	<ul style="list-style-type: none"> From online book
Wednesday	1.6 Function Operations and Compositions of functions	<ul style="list-style-type: none"> Perform operations with functions. Find compositions of functions. 	<ul style="list-style-type: none"> Ppt with examples and practice 	<ul style="list-style-type: none"> From online book
Thursday	1.6 Function Operations and Compositions of functions	<ul style="list-style-type: none"> Perform operations with functions. Find compositions of functions. 	<ul style="list-style-type: none"> Ppt with examples and practice 	<ul style="list-style-type: none"> From online book
Friday	1.7 Inverse Relations and Functions	<ul style="list-style-type: none"> Use the graphs of functions to determine if they have inverse functions. Find inverse functions algebraically and graphically 	<ul style="list-style-type: none"> Ppt with examples and practice desmos 	<ul style="list-style-type: none"> From online book

Week of: September 12	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	1.3 Continuity, end behavior, and limits	<ul style="list-style-type: none"> • Use limits to determine the continuity of a function, and apply the Intermediate Value thm to continuous functions • Use limits to describe end behavior of functions 	<ul style="list-style-type: none"> • Notes and examples 	<ul style="list-style-type: none"> • From online book
Tuesday	1.3 Continuity, end behavior, and limits	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Notes and examples 	<ul style="list-style-type: none"> • From online book
Wednesday	Quiz QFocus: Behavior of functions	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • Quiz 1.1-1.3 • reflection 	<ul style="list-style-type: none"> • blog: How are functions present in your daily life?
Thursday	1.4 Extreme and Rates of Change	<ul style="list-style-type: none"> • determine intervals on which functions are increasing, constant, or decreasing, and determine maxima and minima of functions • determine the average rate of change of a function 	<ul style="list-style-type: none"> • notes and examples 	<ul style="list-style-type: none"> • from online book
Friday	1.4 Extreme and Rates of Change	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • From online book

Week of: September 5	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Labor Day – no school		•	•
Tuesday	1.1 Functions	<ul style="list-style-type: none"> • Describe subsets of real numbers • Identify and evaluate functions and state their domains 	<ul style="list-style-type: none"> • What do you know functions? • Notes and examples 	<ul style="list-style-type: none"> • From online book
Wednesday	1.2 Analyzing graphs of functions and relations	<ul style="list-style-type: none"> • Use graphs of functions to estimate values and find their domains, ranges, y-intercepts, and zeros of functions • Explore symmetries of graphs and identify even and odd functions 	<ul style="list-style-type: none"> • Notes and examples 	<ul style="list-style-type: none"> • From online book
Thursday	1.3 Continuity, end behavior, and limits	<ul style="list-style-type: none"> • Use limits to determine the continuity of a function, and apply the Intermediate Value thm to continuous functions • Use limits to describe end behavior of functions 	<ul style="list-style-type: none"> • Notes and examples 	<ul style="list-style-type: none"> • From online book
Friday	quiz	•	<ul style="list-style-type: none"> • Quiz 1.1-1.3 • reflection 	<ul style="list-style-type: none"> • blog: How are functions present in your daily life?

Week of: August 29	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday	Complex Number Review	<ul style="list-style-type: none"> Review solving equations and expressions with complex numbers 	<ul style="list-style-type: none"> Teacher led examples puzzle 	<ul style="list-style-type: none"> # 3,10, 13, 18, 28, 33, 34, 38, 45, 51
Tuesday	Quadratic equation review	<ul style="list-style-type: none"> Analyzing the properties of parabolas Factoring quadratic equations 	<ul style="list-style-type: none"> Teacher led examples Small group activity 	<ul style="list-style-type: none"> # 4, 10, 14, 19, 26, 34, 35, 42, 50, 51
Wednesday	n th roots and real exponents	<ul style="list-style-type: none"> Review the process and application roots and exponents 	<ul style="list-style-type: none"> Teacher led examples 	<ul style="list-style-type: none"> #3, 16, 17, 18, 22, 24, 26, 27, 29, 34
Thursday	Unpack chapter 1 Introduce photo project	<ul style="list-style-type: none"> Determine skills needed to be successful in chapter Process/purpose and rubric for the photo project 	<ul style="list-style-type: none"> Small group discussion Class discussion Reflection Parent function flipchart 	<ul style="list-style-type: none"> blog: What do you know about functions, what do you hope to learn in this chapter, and how do you think this knowledge is helpful in the real world? (approx. 350 words)
Friday	No School	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">

Week of: August 22	Lesson	Objective	Activities, Methods, or Procedures	Homework
Monday				
Tuesday	First Day of School	<ul style="list-style-type: none"> • Self Introduction • Establish Class Expectations • Student Introductions 	<ul style="list-style-type: none"> • Go over syllabus • Students complete <i>Get to Know Me</i> form 	<ul style="list-style-type: none"> • Complete <i>Get to know me</i> form • Obtain needed school supplies
Wednesday	QFocus	<ul style="list-style-type: none"> • Students will be able to produce, manipulate, and prioritize questions to maximize information gained 	<ul style="list-style-type: none"> • Powerpoint on the QFocus procedure • QFocus practice in small groups 	
Thursday		<ul style="list-style-type: none"> • Determine the prior content knowledge of the students. 	<ul style="list-style-type: none"> • Pre-test 	
Friday	<ul style="list-style-type: none"> • Goal Setting • Set-up Blog • Discuss On-going Photo Project 	<ul style="list-style-type: none"> • Students will be able to set academic goals and plans to reach them. 	<ul style="list-style-type: none"> • Powerpoint on Setting SMART Goals • Small group discussion • Independent goal setting • Set-up student page on Weebly • Introduce Photo Project 	<ul style="list-style-type: none"> • Complete Student webpage