

Bay City Public Schools

Pacing Guide

| Course: Precalculus | | Trimester 1 of 2 | | Text: Precalculus Addison Wesley | |
|---------------------|---|------------------|--|-------------------------------------|------|
| Time Frame | Content | | | Chapter/Section | HSCE |
| | Chapter Title | | Suggested Problems | | |
| Week 1 | Overview of Chapter P | | p. 57 1-73 | Ch. P | |
| Week 2 | Modeling and Equation Solving Functions and Their Properties | | p. 74 1-10, 11-21 odds, 23-40,42,42,46 p. 96 1-34, 35-59 odds, 62 | Ch 1 – 1, 2 | |
| Week 3 | Ten Basic Functions Building Functions from Functions | | p. 105 1-10, 11-37 odds p. 122 1-20, 33-37 odds, 39-42, 45, 47, 49, 57 | Ch 1 – 3, 4 | |
| Week 4 | Graphical Transformations Modeling with functions | | p. 133 1-20, 21-47 odds, 49-52 p. 144 1-28, 31, 32, 34, 35, 37, 39, 40 | Ch 1 – 5, 6 | |
| Week 5 | Linear and Quadratic Functions with Modeling Power Functions | | p. 169 1-43 odds, 46, 47, 49-52, 57, 58, 60, 61, 62 p. 184 1-27 odds, 29-34, 35- 43 odds, 55, 56 | Ch 2 – 1, 2 | |
| Week 6 | Polynomial Functions of Higher Degree with Modeling Real Zeros of Polynomial Functions | | p. 196 1-59 odds, 62-64, 67 p. 208 1-29 odds, 30-33, 36, 49, 51, 53, 55, 58, 60, 62, 65, 66 | Ch 2 – 3, 4 | |
| Week 7 | Complex Numbers Complex Zeros and the Fundamental Theorem of Algebra | | p. 218 1-51 odds, 55, 56, 60 p. 225 1-37 odds, 41-44, 46, 47 | Ch 2 – 5, 6 | |
| Week 8 | Rational Functions and Equations Solving Inequalities in One Variable | | P. 236 1-51 odds, 48, 50, 52 p. 246 1-49 odds, 52-55, 57, 58 | Ch 2 – 7, 8 | |
| Week 9 | Exponential and Logistic Functions Exponential and Logistic Modeling | | p. 270 1-12, 13-37 odds, 41, 43, 45, 47, 49, 51-56 p. 279..... | Ch 3 – 1, 2 | |
| Week 10 | Logarithmic Functions and Their Graphs Properties of Logarithmic Functions | | | Ch 3 – 3, 4 | |
| Week 11 | Equation Solving and Modeling Mathematics of Finance | | | Ch 3 – 5, 6 | |
| Week 12 | | | | | |

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| | Chapter Title | Suggested Problems | | | |
| Week 1 | Angles and Their Measures Trigonometric Functions of Acute Angles | | | Ch 4 – 1, 2 | |
| Week 2 | Circular Functions Graphs of Sine and Cosine: Sinusoids | | | Ch 4 – 3, 4 | |
| Week 3 | Graphs of Tangent, Cotangent, Secant, and Cosecant, Inverse Trigonometric Functions, Solving Problems with Trigonometry | | | Ch 4 – 5, 7, 8 | |
| Week 4 | Fundamental Identities Proving Trigonometric Identities | | | Ch 5 – 1, 2 | |
| Week 5 | Sum and Difference Identities Multiple-Angle Identities | | | Ch 5 – 3, 4 | |
| Week 6 | Law of Sines Law of Cosines | | | Ch 5 – 5, 6 | |
| Week 7 | Vectors in the Plane Dot Products of Vectors | | | Ch 6 – 1, 2 | |
| Week 8 | Parametric Equations and Motion Polar Coordinates | | | Ch 6 – 3, 4 | |
| Week 9 | Graphs of Polar Equations De Moivre's Theorem and nth Roots | | | Ch 6 – 5, 6 | |
| Week 10 | Solving Systems of Two Equations, Matrix Algebra, Multivariate Linear Systems and Row Operations | | | Ch 7 – 1, 2, 3 | |
| Week 11 | Conic Sections and Parabolas, Ellipses, Hyperbolas | | | Ch 8 – 4, 5, 6 | |
| Week 12 | Exam | | | | |