

# PRECALCULUS SPRING 2020 - DRAFT

January 2020

Monday	Tues./Wed.	Thurs./Fri.
<p><b>6 STAFF DEVELOPMENT DAY</b></p>	<p><b>7 TEACHER WORK DAY</b>  <b>8 MONDAY SCHEDULE</b>            Review Circles / Ellipses / Completing the Square</p> <p><b>HW: Completing the Square Worksheet to Graph Circles and Ellipses (1-15odd)</b></p>	<p><b>9-10</b>            Teach: 9.1 Polar Coordinates and converting from rectangular coordinate  <a href="#">Polar Graph Paper</a></p> <p><b>HW9.1 #11-19, 31,39,59, 23,25,33,41,45,57,61</b></p>
<p><b>13</b>            Teach:9.2 Graphing Polar Equations</p> <p><b>HW9.2A 1-27odd; 29-36all</b>            (write equations and sketch the graphs)</p>	<p><b>14-15</b>            Teach: More 9.2 Graphing Polar Equations            Intro to Complex Numbers (9.3)</p> <p><b>HW9.2B; 37-59 odd</b></p>	<p><b>16-17</b>  <b>QUIZ 9.1-9.2</b>            Teach: More 9.3 Converting Complex Numbers to Polar, De Moivre's Theorem/Work Day</p> <p><b>HW9.3A; 1-31odd</b></p>
<p><b>20 NO SCHOOL - MLK DAY</b></p>	<p><b>21-22</b>            Teach: 9.4 Intro. To Vectors  <b>HW9.3B; 33, 35, 49</b>  <b>HW9.4A;</b>  <b>13,15,17,23,27,29,33,37,39,41,45,47,53,55,57,67</b></p>	<p><b>23-24</b>  <b>Mini Quiz 9.3</b></p> <p>Teach: 9.5; Dot Product  <b>HW9.4B, 67; HW9.5A;2-4,7,9,11,29, 35</b></p>
<p><b>27</b>            Teach: More 9.5 Decomposition of Vectors- Airplane Problem practice</p> <p><b>HW9.5B;13-19odd,29,31</b>  <b>HW: Application Worksheet (to be collected)</b></p>	<p><b>28-29</b>            Teach: 9.6 Vectors in Space</p> <p><b>HW9.6; 9,17,21,22,29,31,33,39,41 47,51,53, 59,65</b></p>	<p><b>30-31</b>  <b>QUIZ 9.4-9.5</b></p> <p><b>HW: Chapter Review Part A</b>  <b>1,3,11,13,17,19,21(no calc.), 29, 32, 35</b></p>

## February 2020

Monday	Tues./Wed.	Thurs./Fri.
<p><b>3</b> Review Day</p> <p>HW: Chapter Review Part B 41, 43, 47, 55, 61, 63, 67, 71, 75, 85, 93, 99, 109, 110, 111</p>	<p><b>4-5</b> More Review</p> <p>HW: Chapter Practice Test (skip 7, 9, 25) Review Problems 109, 110, 111 from prior day Review Application Worksheet problems</p>	<p><b>6-7</b></p> <p><b>CHAPTER 9 TEST</b></p> <p>HW: Completing the Square for Parabolas, Circles, Ellipses and Hyperbolas. (Worksheet to be collected)</p>
<p><b>10</b> Teach 10.3: Ellipses</p> <p>HW10.3; 13-16, 21, 31, 39, 41, 45, 53, 55, 57, 71, 73</p>	<p><b>11-12</b> Teach 10.4; Hyperbolas</p> <p>HW10.4; 13-51odd</p>	<p><b>13-14</b> Teach 10.2: Parabolas</p> <p>HW10.2; 11-18all; 19, 23, 27, 29, 33, 37-47odd, 55, 59, 63</p>
<p><b>17</b> NO SCHOOL - MID-WINTER RECESS</p>	<p><b>18-19</b> NO SCHOOL - MID-WINTER RECESS</p>	<p><b>20-21</b> NO SCHOOL - MID-WINTER RECESS</p>
<p><b>24</b> 11.2 Using Matrices</p> <p>HW11.2; 5, 7, 11, 17, 19, 25, 27, 45, 47, 53 HW11.1; 78 (application problems - use matrices)</p>	<p><b>25-26</b> <b>QUIZ 10.1-10.4</b> 10.5 Identifying Conics and Rotating Conics</p> <p>HW10.5; 6, 7, 8, 9, 1-20all <b>Youtube Video: SAT2 Matrices</b></p>	<p><b>27-28</b></p> <p>Teach 10.7; Parametric Equations</p> <p>HW10.7; 1-25odd, 43, 45</p>

## March 2020

Monday	Tues./Wed.	Thurs./Fri.
<p>2 Chapter Review 10.1-10.4,10.7</p> <p>HW: Practice Worksheet Chapter Review Part A: 1-15odd, 21-39 odd</p>	<p>3-4 Chapter Review 10.1-10.4,10.7</p> <p>HW: Chapter Review Part B 63-71odd, 79, 80</p>	<p>5-6 <b>CHAPTER 10 TEST; 10.1-10.4,10.7</b></p>
<p>9 14.1: Finding Limits Using Tables and Graphs</p> <p>HW14.1: 1,5,7,11,13,15,17-27all</p>	<p>10-11 14.2: Algebraic Techniques for Finding Limits</p> <p>HW14.2: 1-19odd; Word Problem a,b,c pg. 903</p>	<p>12-13 14.3; One-Sided Limits; Continuous Functions</p> <p>DISCUSS CH10 TEST</p> <p>HW14.3:1-29odd;</p>
<p>16 Read: 5.3 Graphing Exponential Functions HW5.3A:1-27odd, 29-36all; 37-55 odd; for graphing list transformation, identify horizontal asymptote and a few points. (Due by Wed) Write original problem or graphs and show work.</p>	<p>17-18 More 5.3: Solving Exponential Functions HW5.3B: 57-79odd, 81-84all (Due by Fri) Write original problem and show work.</p>	<p>19-20 Read 5.4 Logarithmic Function HW5.4: 9,17,23,25,43,59, 63-71,87,89,101 (Due by Mon.) Write original problem and show work.</p>
<p>23 Read 5.5 Properties of Logarithms HW5.5: 7-19odd, 23,25,29,39,43,45, 51,55, 61,65,67,69 (Due by Wed) Write original problem and show work.</p>	<p>24-25 Read: 5.6 Log/Exponential Equations HW5.6: 5, 7,11,13,15,19,21,33,37,43,45,47 (due by Fri) Write original problem and show work.</p>	<p>26-27 Read: 5.7 Financial Models HW5.7: 13, 19, 23, 31, 37, 41, 51 Read 5.8 Growth/Decay Models HW5.8: 1-11odd (due by Mon) Write original problem and show work</p>

## April 2020

Monday	Tues./Wed.	Thurs./Fri.
30 <b>Chapter 5 Review</b> HW; 23-83odd, 91, 93, 96,97 (Due by Wed)	31-1 <b>Chapter 5 Test</b> to be scheduled via email and held via <i>Google Meet</i> Wed (11am or 2pm)	2-3 <b>Chapter 5 Test</b> to be scheduled via email and held via <i>Google Meet</i> Thurs (11am or 2pm)
6 <b>SPRING BREAK</b>	7-8 <b>SPRING BREAK</b>	9-10 <b>SPRING BREAK</b>
13	14-15 (Wed) <b>Polynomial Review (4.1)</b>  HW4.1; Read Polynomial Review Summary (book or class notes) 11,13,15,17,21,23,29,37,39,45,49,65,69,75	16-17 (Fri) <b>Discuss Ch5 Test</b> HW: Complex Rational Functions Worksheet
20	21-22 <b>Rational Functions (4.2)</b> Horizontal vs. Vertical Asymptotes, Holes  HW4.2A; 11-23odd; 27 (write equations, factor, find holes and asymptotes)	23-24 <b>More Rational Functions (4.2)</b> <b>Oblique Asymptotes</b>  HW4.2B; 25,29, 33,35, 39,41, 43, 45,51

## May 2020

Monday	Tues./Wed.	Thurs./Fri.
27	28-29 <b>Graphs of Rational Functions (4.3)</b>  HW4.3A; 7,11,15,17,23, 31, 37, 43	30-1 <b>Constructing a Rational Function from the Graph (4.3)</b>  HW4.3B; 51, 52, 53, 54, 55, 63
4	5-6 <b>Real Zeros of a Polynomial Function and Descartes Rule of Signs (4.5)</b>  HW4.5A; 11-21odd, 39, 41	7-8 <b>Real Zeros of a Polynomial Function and Descartes Rule of Signs (4.5)</b>  HW4.5B; 43, 45, 53, 63, 65
11	12-13 <b>CH4 REVIEW</b>  <b>HW:</b> CH Review; 1-9 odd; 11-17odd (analyze and sketch); 23-33odd (analyze and sketch)	14-15 <b>CH4 REVIEW</b>  <b>HW:</b> CH Review; 45,47,53,55,57,63,65 (factor and sketch)
18	19-20 <b>CH4 TEST (4.1, 4.2, 4.3, 4.5)</b>  By Appointment	21-22 <b>CH4 TEST (4.1, 4.2, 4.3, 4.5)</b>  By Appointment

## June 2020

Monday	Tues./Wed.	Thurs./Fri.
25 NO SCHOOL -MEMORIAL DAY	26-27  The Tangent Problem: Using the First Derivative	28-29  The Tangent Problem: Using the First Derivative
1	2-3	4-5
8	9-10	11-12 13: LAST DAY 14: TEACHER WORK DAY