162 Precalculus 2

SYLLABUS

Catalog description.
Exponential and logarithmic functions, trigonometric functions, identities, inverse trigonometric functions, law of sines, law of cosines, trigonometric form of complex numbers, applications. Prerequisite: MATH 161 with a grade of “C” or better.

Learning outcomes
Upon successful completion of this course, students will be able to:

1. Graph and determine properties of exponential and logarithmic functions.
2. Graph and determine properties of trigonometric functions
3. Graph and determine properties of inverse trigonometric functions
4. Solve problems using trigonometric identities
5. Use polar coordinates to graph polar equations
6. Convert complex numbers between rectangular and polar form
7. Perform operations on vectors in the plane


Instructor: Dr. Arkady Kitover
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Office Hours: TWR, 5 pm - 6:25 pm
Email: (the best way to contact me) akitover@ccp.edu or akitover@hotmail.com
Web Page: http://faculty.ccp.edu/FACULTY/akitover (the web page contains the syllabus and all the reviews for the course with detailed solutions)
Technology: you will need a scientific calculator of any kind.

CONTENTS

Exponential and logarithmic functions. Chapter 4.
Review 1
Test 1

Trigonometric functions. Chapter 5, Sections 5.1 – 5.4
Review 2
Test 2

Analytic Trigonometry. Chapter 7.
Review 3
Test 3

Applications of trigonometry. Chapter 6 and Chapter 8: Sections 8.1 and 8.3.
Review 4
Test 4

Grading: average of four tests.

90 - 100    A
80 - 89     B
70 - 79     C
60 - 69     D

CLASS RULES
1. No food in the classroom (you can bring a beverage if you wish).
2. Cell phones must be in the vibration mode. No use of cell phones is allowed during a test.
3. If you are late more than 30 min. I will mark you as absent. Students missing an equivalent of two weeks without a documented excuse will be dropped from the class.
4. Only students with good attendance records will be allowed to take make-up tests (if needed).
<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
<th>Problems</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>336 – 337</td>
<td>29, 35, 55, 57.</td>
</tr>
<tr>
<td>4.2</td>
<td>341 – 342</td>
<td>11, 13, 21, 25</td>
</tr>
<tr>
<td>4.3</td>
<td>351 – 352</td>
<td>3, 7, 21, 23, 29, 43, 47, 65</td>
</tr>
<tr>
<td>4.5</td>
<td>368</td>
<td>1, 5, 17, 21, 25, 31, 33, 49, 51.</td>
</tr>
<tr>
<td>4.6</td>
<td>378 – 380</td>
<td>5, 13, 15, 19, 23.</td>
</tr>
<tr>
<td>4.7</td>
<td></td>
<td>3, 9, 13, 19</td>
</tr>
<tr>
<td>4.8</td>
<td>407 – 408</td>
<td>15, 25, 29, 35, 43</td>
</tr>
<tr>
<td>4.9</td>
<td>417 – 418</td>
<td>9, 13, 17, 21, 33, 63, 65, 67</td>
</tr>
<tr>
<td>5.1</td>
<td>429</td>
<td>21, 25, 31, 35</td>
</tr>
<tr>
<td>5.2</td>
<td>438</td>
<td>41, 43, 45, 47, 49</td>
</tr>
<tr>
<td>5.3</td>
<td>445</td>
<td>5, 9, 19, 31, 33, 39</td>
</tr>
<tr>
<td>5.4</td>
<td>543</td>
<td>9, 17, 19, 31, 39, 41, 53, 57, 59, 61</td>
</tr>
<tr>
<td>5.5</td>
<td>551</td>
<td>15, 21, 29, 33, 37, 41, 43</td>
</tr>
<tr>
<td>6.1</td>
<td>561 – 562</td>
<td>27, 31, 39, 43, 49, 53, 57, 65, 71, 75, 81</td>
</tr>
<tr>
<td>6.2</td>
<td>569</td>
<td>17, 25, 29, 35, 39, 41, 43, 45, 47, 55</td>
</tr>
<tr>
<td>6.3</td>
<td>574 – 575</td>
<td>5, 7, 11, 19, 37, 43, 55, 59, 61</td>
</tr>
<tr>
<td>6.4</td>
<td>478 – 479</td>
<td>7, 11, 15, 19, 33, 35, 55, 65, 69, 73</td>
</tr>
<tr>
<td>6.5</td>
<td>487 – 488</td>
<td>9, 15, 39, 45.</td>
</tr>
<tr>
<td>6.6</td>
<td>498 - 499</td>
<td>3, 15, 17, 59</td>
</tr>
<tr>
<td>6.7</td>
<td>506 – 507</td>
<td>15, 19, 27</td>
</tr>
<tr>
<td>6.8</td>
<td>514 – 515</td>
<td>19, 21, 27, 39, 41</td>
</tr>
<tr>
<td>6.9</td>
<td>521 – 523</td>
<td>13, 19, 27, 43, 51</td>
</tr>
<tr>
<td>8.1</td>
<td>593</td>
<td>27, 37, 51, 55, 57</td>
</tr>
<tr>
<td>8.2</td>
<td>610 – 611</td>
<td>31, 43, 47, 51, 55, 63, 67, 73, 75, 89, 91</td>
</tr>
</tbody>
</table>