ACP M126 (Trigonometric Functions) Resource Sheet

<table>
<tr><td>Credits</td><td>3</td></tr>
<tr><td>Prerequisite(s)</td><td>Two years of high school algebra or M014, and one year of high school geometry. M025 or equivalent.</td></tr>
<tr><td>Course Description</td><td>Designed to prepare students for M211. Trigonometric functions; identities. Graphs of trigonometric and inverse trigonometric functions.

Credit hours may not be applied toward a degree in the College of Arts and Sciences. I Sem., II Sem., SS.

M026 should not be taken concurrently with either M014 or M025.</td></tr>
<tr><td>Core Transfer Library Course</td><td></td></tr>
<tr><td>IU Majors requiring M126</td><td></td></tr>
<tr><td>Textbook</td><td>Algebra and Trigonometry with Analytic Geometry, by Earl Swokowski and Jeffery Cole, either: the custom or

Classic 12th edition [ISBN: 978-0495559719]</td></tr>
<tr><td>Other Acceptable Editions</td><td>13th edition [ISBN: 978-0840068521]</td></tr>
<tr><td>Approved Supplemental Textbooks</td><td></td></tr>
<tr><td>FINAL EXAM

Format: All open ended

DO NOT PUBLISH EXAM OR KEY during 2025-2026 academic year

Distributed to ACP teachers 2-3 weeks prior to when it is given.</td><td>Sections Covered:

<table><tr><td>6.1</td><td>6.5</td><td>7.1</td><td>7.4</td><td>8.1</td><td>10.1</td></tr><tr><td>6.2</td><td>6.6</td><td>7.2</td><td>7.5</td><td>8.2</td><td>10.2</td></tr><tr><td>6.3</td><td>6.7</td><td>7.3</td><td>7.6</td><td>8.3</td><td>10.3</td></tr><tr><td>6.4</td><td></td><td></td><td></td><td>8.4</td><td>10.4</td></tr></table>
Final Exam covers all sections listed above.</td></tr>
<tr><td>Type of calculator allowed</td><td>Scientific Calculator

(Recommended: Texas Instrument TI-30XIIS)</td></tr>
<tr><td>IUB Course Coordinator (25-26)</td><td>Chaojie Yuan (yuan13@iu.edu)</td></tr>
<tr><td>ACP Math Liaison</td><td>Brittany Runge (britstep@iu.edu)</td></tr>
<tr><td>ACP Instructor & School Handbook</td><td>https://schoolhandbook.acp.iu.edu/index.html</td></tr>
<tr><td>ACP Student Handbook</td><td>https://studenthandbook.acp.iu.edu/</td></tr>
</table>

How IU grade will be calculated	Homework	15%
	Quizzes	10%
	Exams	45%
	Final Exam	30%

Section	Suggested Textbook Problems
6.1	#1, 5, 7, 11, 13, 29, 31, 33
6.2	#3, 11, 17, 23, 39, 45, 49, 57, 63, 71, 77, 83, 85
6.3	#3, 5, 11, 19, 21, 29, 35, 41, 45, 47, 53, 57, 73
6.4	#7, 15, 19, 25, 35,
6.5	#1, 5, 7, 13, 19, 29, 37, 43
6.6	#1, 5, 15, 17, 23, 29, 37, 55
6.7	#1, 9, 17, 25, 27, 35, 51
7.1	#1, 5, 9, 15, 19, 29, 35, 39, 67, 69
7.2	#3, 7, 15, 19, 31, 33, 43, 49, 53, 75
7.3	#5, 13, 17, 19, 25, 31, 35, 37, 41, 61
7.4	#3, 7, 11, 15, 25, 35, 37,
7.5	#3, 9, 15, 19, 25, 29, 33
7.6	#1, 9, 13, 17, 19, 25, 43, 63
8.1	#1, 5, 9, 13, 17, 19
8.2	#3, 5, 9, 13, 15, 33, 41
8.3	#3, 5, 9, 31, 37, 45, 51, 53, 67
8.4	#3, 7, 9, 13, 19, 23, 29, 33
10.1	#1, 3, 9, 23, 25, 33, 37, 47, 55
10.2	#3, 9, 11, 15, 19, 23, 31, 35, 41, 43
10.3	#3, 11, 15, 19, 21, 31, 33, 39, 53
10.4	#3, 7, 9, 19, 31