ACP M125 (Precalculus) 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</td></tr>
<tr><td>Course Description</td><td>Designed to prepare students for M119. Algebraic operations; polynomial, exponential, and logarithmic functions and their graphs; conic sections; systems of equations; and inequalities.

Credit may not be applied toward a degree in the College of Arts and Sciences. I Sem., II Sem., SS.</td></tr>
<tr><td>Core Transfer Library Course</td><td>Yes, CTL Name: Algebra, College</td></tr>
<tr><td>IU Majors requiring M125</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DO NOT PUBLISH EXAM OR KEY during 2025-2026 academic year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 (Exam 1):
<table><tr><td>1.1</td><td>2.1</td><td>2.5</td></tr><tr><td>1.2</td><td>2.2</td><td>2.6</td></tr><tr><td>1.3</td><td>2.3</td><td>2.7</td></tr><tr><td>1.4</td><td>2.4</td><td></td></tr></table>Sections Covered (Exam 2):
<table><tr><td>3.1</td><td>3.3</td><td>3.5</td></tr><tr><td>3.2</td><td>3.4</td><td>3.6</td></tr><tr><td></td><td></td><td>3.7</td></tr></table>Sections Covered (Exam 3):
<table><tr><td>9.1</td><td>4.1</td><td>4.4</td></tr><tr><td>9.2</td><td>4.2</td><td>4.5</td></tr><tr><td>9.3</td><td>4.3</td><td>4.6</td></tr></table>Sections Covered (before Final Exam):
<table><tr><td>5.1</td><td>5.4</td></tr><tr><td>5.2</td><td>5.5</td></tr><tr><td>5.3</td><td>5.6</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>
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IUB Course Coordinator (25-26)	Chaojie Yuan (yuan13@iu.edu)	
ACP Math Liaison	Brittany Runge (britstep@iu.edu)	
ACP Instructor & School Handbook	https://schoolhandbook.acp.iu.edu/index.html	
ACP Student Handbook	https://studenthandbook.acp.iu.edu/	
How IU grade will be calculated	Homework	20%
	Quizzes	5%
	Exams	45%
	Final Exam	30%

Section	Suggested Textbook Problems
1.1	#1, 7, 11, 17, 21, 25, 29, 55
1.2	#1, 5, 11, 15, 19, 31, 39, 45. 47, 49, 53, 65, 71, 77, 97
1.3	#11, 17, 23, 29, 35, 37, 47, 51, 63, 67, 79, 87, 95,
1.4	#3, 9, 15, 21, 29, 33, 37, 43, 49, 53, 67
2.1	#3, 11, 13, 19, 23, 37, 59, 61, 65, 69, 75
2.2	#1, 3, 11, 13, 15, 21, 25, 37
2.3	#5, 13, 17, 25, 27, 31, 33, 43, 45, 51, 53, 59
2.4	#1, 5, 9, 15, 23, 25, 35, 39, 51
2.5	#1, 5, 13, 17, 23, 41, 47, 51, 53, 61
2.6	#5, 9, 23, 29, 41, 47, 53, 59, 69, 71, 75, 77
2.7	#1, 3, 7, 11, 19, 23, 29, 35, 45
3.1	#3, 5, 11, 19, 21, 25, 29, 31
3.2	#1, 5, 9, 17, 25, 31, 37, 39, 47, 53, 67
3.3	#3, 17, 21, 27, 31, 35, 41, 45, 51, 57, 61
3.4	#3, 7, 13, 19, 23, 25, 27, 39, 49, 67, 71
3.5	#3, 9, 13, 17, 19, 25, 27, 33, 35, 49, 65
3.6	#5, 9, 15, 21, 23, 31, 39, 41, 55
3.7	#1, 3, 7, 9, 13, 17, 23, 31, 37, 39, 53, 57

9.1	#1, 3, 7, 9, 13, 21, 33, 39, 41
9.2	#1, 3, 7, 15, 17, 23, 27, 31, 33, 37
9.3	#1, 5, 9, 11, 15, 27, 33
4.1	#3, 7, 11, 15, 19, 21, 27, 35, 43
4.2	#1, 3, 7, 11, 13, 17, 23, 29, 35
4.3	#3, 7, 11, 15, 19, 25
4.4	#1, 5, 11, 15, 19
4.5	#3, 7, 13, 17, 25, 33, 37
4.6	#1, 3, 7, 11, 15, 17, 19
5.1	#3, 7, 9, 23, 25, 27, 31, 37, 43
5.2	#3, 7, 17, 25, 31, 34, 37, 41, 46
5.3	#3, 5, 7, 15, 17, 21, 24
5.4	#1, 3, 7, 11, 13, 15, 17, 21, 25, 33, 55, 59, 63
5.5	#1, 7, 13, 15, 19, 17, 19, 25, 39, 53
5.6	#1, 5, 11, 17, 21, 27, 31, 33, 39, 51, 55, 59,