

GADSDEN CITY CURRICULUM GUIDE ESSENTIAL CONTENT AND SKILLS ANALYTICAL MATHEMATICS

TEXT:

Date Taught	Objective	Standard	Text Section	Section Name	Additional Resources	Suggested Time Frame (Block)	Ch. Time Frame
	Subsets of real numbers, evaluate functions and state Finding y-intercepts, zeros, & symmetry	Review	1.1	Functions		1	8 days
		Review	1.2	Analyzing graphs,		1	
	Review	Review	Review	Factoring & solving		1	
	Divide polynomials using long division & synthetic	Review	2.3	Remainder & Factor theorem		2	
	Finding zeros of polynomials, find complex zeros of	Review	2.4	Zero's of polynomial		1	
		Review				1	
		Test				1	
	Solve radical equations		2.1	Power & radical functions		1/2 day	7 days
	Solve rational equations		2.5	Rational functions		1/2 day	
	Solve quadratic inequalities & solve rational inequalities		2.6	Nonlinear inequalities		2 days	
	Write partial fractions decompositions	15	6.4	Partial Fractions		2 days	
		Review				1 day	
		Test				1 day	
	Finding trigonometry functions & solve right		3.1	Right triangle trigonometry		2 days	6 days
	Convert degrees to radians and vice versa-convert DMS		3.2	Degrees & Radians		1 day	
	Find values of trigonometry functions on any angle-use	16	3.3	Trigonometric functions on		1 day	
			Review			1 day	

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Test								1 day
	Solve oblique triangles using law of sines and law of cosines, & find area of oblique triangles	17	3.7	The law of Sines & Cosines		2 days		
	Solve oblique triangles using law of tangents	17	Find	The law of tangents		1 day	6 days total	
			Review			1 day		
			Test			1 day		
		AL. 7	Find	Add, Sub., Mult., by a scalar Matrices		1		
	Multiply Matrices-find determinants and inverses of 2x2 & 3x3 matrices-find areas of triangles & polygons using determinants	AL. 6,8,10	6.2	Matrix multiplication, Inverses, & Determinants		3 days		
	Solve systems of equations by elimination or substitution-solve systems using Gaussian elimination & row echelon reduction	AL. 10	6.1	Multivariable linear systems & row operations		3 days		

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	Solve systems using Cramers Rule	AL. 10	6.3	Solving linear systems using inverses and Cramers Rule		1 day		
		Review				1 day		
		Test				1 day		
	Find component form and magnitude of a vector, use operations with vectors, find a unit vector with the same directions of a given vector, write a vector as a linear combination of unit	AL. 2,3,4,5	8.2	Vectors in the Coordinate Plane		3 days		
	Represent and operate with vectors- solve vector problems	AL. 1	8.1	Introduction to Vectors		1 day		6 days
				Review		1 day		
				Test		1 day		
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	Find dot products of 2 vectors, use dot product to find the angle between 2 vectors.	AL.3	8.3	Dot products and Vector projections		1 day		

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	Plot points and vectors in 3-D coordinate systems, find magnitude and component form, perform algebraic operations with vectors.	Standard 4, 5	8.4	Vectors in 3 dimensional space	Precal 8.1,2,4,5	2.5 days		
		Standard 3,4,5,& 9	8.5	Dot and Cross products of vectors in space		1.5 days	7 days	
				Review		1 day		
				Test		1 day		
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	Define & identify statements & logical connectives, find negations of statements, write statements symbolically	Standard 13, 14	12.1	Statements & Quantities		1 day		
	Construct truth tables for negation, disjunction, conjunction, conditional & bi-conditional statements.	Standard 14	12.2	Truth Tables		2 days		
	Simplify Boolean expressions, express values of Boolean functions	Standard 13	13.1	Boolean Functions		1 day		

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			Review			1 day	6 days	
			Test			1 day		
	Use limits to determine continuity of a functionSt	Standard 12	1.3	Continuity, End Behaviors, & Limits		1 day		
	Estimate limits at a certain point and at infinity	Standard 12	11.1	Estimate limits graphically		1 day		
	Evaluate limits at a certain point and at infinity	Standard 12	11.2	Evaluating limits algebraically		3 days	7 days	
			Review			1 day		
			Test			1 day		
		Review for Final				3 days		
			Final exam			1 day	4 days	

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