	MA.912.NSO.1	MA.912.NSO.1.1	MA.912.NSO.2	MA.912.NSO.2.1	MA.912.NSO.3	MA.912.NSO.3.1	MA.912.NSO.4	MA.912.NSO.4.1
	Generate equivalent expressions	Extend previous understanding of the Laws of Exponents to include rational exponents. Apply the Laws of Exponents to evaluate numerical expressions and generate equivalent numerical expressions involving	Represent and perform operations with	Extend previous understanding of the real number system to include the complex number system. Add, subtract, multiply and divide complex numbers.	Represent and perform operations with	Apply appropriate notation and symbols to represent vectors in the plane as directed line segments. Determine the magnitude and direction of a vector in component form.	Represent and perform operations with	Given a mathematical or real-world context, represent and manipulate data using matrices.
(0	and perform operations with expressions involving exponents,	rational exponents.	expressions within the complex number system.	MA.912.NSO.2.2 Represent addition, subtraction, multiplication and conjugation of complex numbers geometrically on the complex plane.	vectors.	MA.912.NSO.3.2 Represent vectors in component form, linear form or trigonometric form. Rewrite vectors from one form to another.	matrices.	MA.912.NSO.4.2 Given a mathematical or real-world context, represent and solve a system of two- or three- variable linear equations using matrices.
OPERATIONS (NSO)	radicals or logarithms.	MA.912.NSO.1.3 Generate equivalent algebraic expressions involving radicals or rational exponents using the properties of exponents. MA.912.NSO.1.4 Apply previous understanding of operations with rational numbers to add, subtract, multiply and diving numerical radicals.		MA.912.NSO.2.3 Calculate the distance and midpoint between two numbers on the complex coordinate plane. MA.912.NSO.2.4 Solve mathematical and real-world problems involving complex numbers represented algebraically or on the coordinate plane.		MA.912.NSO.3.3 Solve mathematical and real-world problems involving velocity and other quantities that can be represented by vectors. MA.912.NSO.3.4 Solve mathematical and real-world problems involving vectors in two-dimensions using the dot product and vector projections.		MA.912.NSO.4.3 Solve mathematical and real-world problems involving additors, ubstraction and multiplication of matrices. MA.912.NSO.4.4 Solve mathematical and real-world problems using the inverse and determinant of matrices.
sense &		MA.912.NSO.1.5 Add, subtract, multiply and divide algebraic expressions involving radicals.		MA.912.NSO.2.5 Represent complex numbers on the complex plane in rectangular and polar forms.		MA.912.NSO.3.5 Solve mathematical and real-world problems involving vectors in three-dimensions using the dot product and cross product.		
NUMBER S		MA.912.NSO.1.6 Given a numerical logarithmic expression, evaluate and generate equivalent numerical expressions using the properties of logarithms or exponents.		MA.912.NSO.2.6 Rewrite complex numbers to trigonometric form. Multiply complex numbers in trigonometric form.		MA.912.NSO.3.6 Multiply a vector by a scalar algebraically or graphically.		
ž		MA.912.NSO.1.7 Given an algebraic logarithmic expression, generate an equivalent algebraic expression using the properties of logarithms or exponents				MA.912.NSO.3.7 Compute the magnitude and direction of a vector scalar multiple.		
						MA.912.NSO.3.8 Add and subtract vectors algebraically or graphically. MA.912.NSO.3.9 Given the magnitude and direction of two or more vectors, determine the magnitude and direction of their sum.		

		*** 012 40 4 4		144 042 45 24						A44 042 AD 5 4		141 012 AD C 4		MA 012 40 7 4						NAN 012 AD 40 4
_			MA.912.AR.2	MA.912.AR.2.1 Given a real-world context, write and solve		MA.912.AR.3.1 Given a mathematical or real-world context.	MA.912.AR.4			MA.912.AR.5.1 Solve one-variable exponential equations	MA.912.AR.6	MA.912.AR.6.1 Given a mathematical or real-world context,		A	MA.912.AR.8	MA.912.AR.8.1 Write and solve one-variable rational	MA.912.AR.9	MA.912.AR.9.1 Given a mathematical or real-world context,	MA.912.AR.10	MA.912.AR.10.1 Given a mathematical or real-world context,
		Identify and interpret parts of an equation or expression that represent a quantity in terms		one-variable multi-step linear equations.	Write, solve	write and solve one-variable guadratic	Write, solve	write and solve one-variable absolute value	Write, solve	using the properties of exponents.	Solve and	when suitable factorization is possible, solve		Interpret solutions as viable in terms of	Solve and	equations. Interpret solutions as viable in				
rev	vrite	of a mathematical or real-world context,	graph linear		and graph	equations over the real number system.	and graph	equations.	and graph		graph	one-variable polynomial equations of degree	radical	context and identify any extraneous		terms of the context and identify any	a system of	linear equations algebraically or graphically.	sequence and	arithmetic sequences.
alg	ebraic	including viewing one or more of its parts as a	equations,		quadratic		absolute value		exponential		polynomial	3 or higher over the real and complex	equations and	solutions.	equations and	extraneous solutions.	two- and three	-	series	
exi	pressions	single entity.	functions and		equations,		equations,		and logarithmi	-	equations and	number systems.	functions in one		functions in		variable		equations,	
	dequations	MA.912.AR.1.2	inequalities in	MA.912.AR.2.2	functions and	MA.912.AR.3.2	functions and	MA.912.AR.4.2	equations and	MA.912.AR.5.2	functions in	MA.912.AR.6.2	and two	MA.912.AR.7.2	one and two	MA.912.AR.8.2	equations and	MA.912.AR.9.2	functions and	MA.912.AR.10.2
		Rearrange equations or formulas to isolate a		Write a linear two-variable equation to		Given a mathematical or real-world context,		Given a mathematical or real-world context,		Solve one-variable equations involving		Explain and apply the Remainder Theorem to		Given a table, equation or written description	1	Given a table, equation or written description	in	Given a mathematical or real-world context,		Given a mathematical or real-world context,
	equivalent	quantity of interest.	one and two	represent the relationship between two	inequalities in	write and solve one-variable quadratic	inequalities in	write and solve one-variable absolute value	functions in	logarithms or exponential expressions.	one and two	solve mathematical and real-world problems.	variables.	of a square root or cube root function, graph	variables.	of a rational function, graph that function ar		solve a system consisting of a two-variable	inequalities in	write and solve problems involving geometric
for	ms.		variables.	quantities from a graph, a written description or a table of values within a mathematical or	one and two	equations over the real and complex number systems.	one and two	inequalities. Represent solutions algebraically or graphically.	one and two	Interpret solutions as viable in terms of the context and identify any extraneous	variables.			that function and determine its key features.		determine its key features.	that describe	linear equation and a non-linear equation algebraically or graphically.	one and two	sequences.
				real-world context.	variables.	systems.	variables.	or graphically.	variables.	solutions.							quantities or	algebraicany of graphicany.	variables.	
																	relationships.			
		MA.912.AR.1.3		MA.912.AR.2.3		MA.912.AR.3.3		MA.912.AR.4.3		MA.912.AR.5.3		MA.912.AR.6.3		MA.912.AR.7.3		MA.912.AR.8.3		MA.912.AR.9.3		MA.912.AR.10.3
		Add, subtract and multiply polynomial		Write a linear two-variable equation for a line		Given a mathematical or real-world context.		Given a table, equation or written description		Given a mathematical or real-world context.		Explain and apply theorems for polynomials		Solve and graph mathematical and real-work		Solve and graph mathematical and real-worl	d	Given a mathematical or real-world context.		Recognize and apply the formula for the sum
		expressions with rational number		that is parallel or perpendicular to a given line		write and solve one-variable quadratic		of an absolute value function, graph that		classify an exponential function as		to solve mathematical and real-world		problems that are modeled with square root		problems that are modeled with rational		solve a system consisting of two-variable		of a finite arithmetic series to solve
		coefficients.		and goes through a given point.		inequalities over the real number system.		function and determine its key features.		representing growth or decay.		problems.		or cube root functions. Interpret key feature		functions. Interpret key features and		linear or non-linear equations algebraically o		mathematical and real-world problems.
						Represent solutions algebraically or graphically.								and determine constraints in terms of the context.		determine constraints in terms of the context.		graphically.		
		MA.912.AR.1.4		MA.912.AR.2.4		MA.912.AR.3.4		MA.912.AR.4.4		MA.912.AR.5.4		MA.912.AR.6.4		MA.912.AR.7.4		context.		MA.912.AR.9.4		MA.912.AR.10.4
		Divide a polynomial expression by a		Given a table, equation or written description		Write a quadratic function to represent the		Solve and graph mathematical and real-world		Write an exponential function to represent a	,	Given a table, equation or written		Solve and graph mathematical and real-work				Graph the solution set of a system of two-		Recognize and apply the formula for the sum
		monomial expression with rational number		of a linear function, graph that function, and		relationship between two quantities from a		problems that are modeled with absolute		relationship between two quantities from a		description of a polynomial function of		problems that are modeled with radical				variable linear inequalities.		of a finite or an infinite geometric series to
		coefficients.		determine and interpret its key features.		graph, a written description or a table of		value functions. Interpret key features and		graph, a written description or a table of		degree 3 or higher, graph that function and		functions. Interpret key features and						solve mathematical and real-world problems.
~						values within a mathematical or real-world context.		determine domain constraints in terms of the context		values within a mathematical or real-world		determine its key features.		determine constraints in terms of the						
ы К		MA.912.AR.1.5		MA.912.AR.2.5		MA.912.AR.3.5		CONTEXT.		MA.912.AR.5.5		MA.912.AR.6.5		context.				MA.912.AR.9.5		MA.912.AR.10.5
2		Divide polynomial expressions using long		Solve and graph mathematical and real-world		Given the x-intercepts and another point on				Given an expression or equation representin	ie i	Sketch a rough graph of a polynomial						Graph the solution set of a system of two-		Given a mathematical or real-world context,
G		division, synthetic division and algebraic		problems that are modeled with linear		the graph of a quadratic function, write the				an exponential function, reveal the constant		function of degree 3 or higher using zeros,						variable inequalities.		write a sequence using function notation,
Ż		manipulation.		functions. Interpret key features and		equation for the function.				percent rate of change per unit interval usin	8	multiplicity and knowledge of end behavior.								defined explicitly or recursively, to represent
Ξ				determine domain constraints in terms of the context.						the properties of exponents. Interpret the constant percent rate of change in terms of a										relationships between quantities from a written description.
ō				context.						real-world context.	•									written description.
S																				
		MA.912.AR.1.6		MA.912.AR.2.6		MA.912.AR.3.6				MA.912.AR.5.6		MA.912.AR.6.6						MA.912.AR.9.6		MA.912.AR.10.6
~		Solve mathematical and real-world problems involving addition, subtraction, multiplication		Given a mathematical or real-world context, write and solve one-variable linear		Given an expression or equation representing a guadratic function, determine the vertex				Given a table, equation or written description of an exponential function, grap		Solve and graph mathematical and real-world problems that are modeled with polynomial						Given a real-world context, represent constraints as systems of linear equations or		Given a mathematical or real-world context, find the domain of a given sequence defined
U		or division of polynomials.		inequalities, including compound		and zeros and interpret them in terms of a				that function and determine its key features		functions of degree 3 or higher. Interpret key						inequalities. Interpret solutions to problems		recursively or explicitly.
Ā				inequalities. Represent solutions algebraically		real-world context.						features and determine constraints in terms						as viable or non-viable options.		
с Ж				or graphically.								of the context.								
		MA 912 AR 1.7		MA 912 AR 2.7		MA 912 AB 3.7				MA 912 AB 5 7								MA.912.AR.9.7		
U		Rewrite a polynomial expression as a product		Write two-variable linear inequalities to		Given a table, equation or written description				Solve and graph mathematical and real-work	d							Given a real-world context, represent		
7		of polynomials over the real number system.		represent relationships between quantities		of a quadratic function, graph that function,				problems that are modeled with exponentia								constraints as systems of linear and non-line	ir .	
				from a graph or a written description within a		and determine and interpret its key features.				functions. Interpret key features and								equations or inequalities. Interpret solutions		
				mathematical or real-world context.						determine constraints in terms of the								to problems as viable or non-viable options.		
		MA.912.AR.1.8		MA 912 AR 2.8		MA.912.AR.3.8				MA.912.AR.5.8								MA.912.AR.9.8		
		Rewrite a polynomial expression as a product		Given a mathematical or real-world context.		Solve and graph mathematical and real-world				Given a table, equation or written								Solve real-world problems involving linear		
		of polynomials over the real or complex		graph the solution set to a two-variable linea		problems that are modeled with guadratic				description of a logarithmic function, graph								programming in two variables.		
		number system.		inequality.		functions. Interpret key features and				that function and determine its key features										
						determine constraints in terms of the														
						context. MA.912.AR.3.9												MA.912.AR.9.9		
		MA.912.AR.1.9 Apply previous understanding of rational				Given a mathematical or real-world context.				MA.912.AR.5.9 Solve and graph mathematical and real-work								Given a mathematical or real-world context.		
		number operations to add, subtract, multiply				write two-variable guadratic inequalities to				problems that are modeled with logarithmic								solve a system of three-variable linear		
		and divide rational algebraic expressions.				represent relationships between quantities				functions. Interpret key features and								equations algebraically.		
						from a graph or a written description.				determine constraints in terms of the										
		MA.912.AR.1.10				MA.912.AR.3.10				context								MA.912.AR.9.10		
		Solve mathematical and real-world problems				Given a mathematical or real-world context,												Solve and graph mathematical and real-work		
		involving addition, subtraction, multiplication				graph the solution set to a two-variable												problems that are modeled with piecewise		
		or division of rational algebraic expressions.				quadratic inequality.												functions. Interpret key features and		
																		determine constraints in terms of the contex	t.	
		MA.912.AR.1.11																		
		Apply the Binomial Theorem to create																		
		equivalent polynomial expressions.																		

MA.912.F.1	MA.912.F.1.1	MA.912.F.2	MA.912.F.2.1	MA.912.F.3	MA.912.F.3.1
Understand compare an analyze properties c functions.	function, determine the function type. Given an input-output table, determine a function type that could represent it.	Identify and describe the effects of transformations on functions. Create new functions given transformations.	Sensity the effect on the graph of table of a given function after regarding (1) by (1)/4, (Create new functions from existing functions.	Given a mathematical or real-words context combine two locations, limited to linear and quadratic, using arithmetic operations. When appropriate, include administrations for the rear function. MAS121.F.32. Given a mathematical or real-word context combine two or more functions, limited to limited and the combine transformed and phononit, appropriate, include down restrictions for the new functions. MAS12.F.3.3 Solve mathematical and real-word prohemis moving functions that have been combine
FUNCTIONS (F)	profile literation of a table over a specified interval. More an algebra expectation that represents the difference quotient of a function. Calculate the numerical value of the difference quotient at a given pair of points. MA.912.F.1.5 Compare key features of linear functions each represent digebracity applicably, in safer or written description.		the type of transformation and find the value of the real number. MA 512.F.2.4 Given the graph to table of values of two or more transformations of a function, taste the type of transformations and find the values of the real number that defines the transformation. MA 512.F.2.5 Given a table, equation or graph that disc, equation or graph that transformed function of direct by transformed values or graph of the transformed function of direct by adding a real number to the a or yvalues or multiplying the a or yvalues or more transformation.		using arithmetic operations. MA 9:012-F.3.4 Represent the composition of two functions algebraically or in a table. Othermise the domain and range of the composite function. MA, 912-F.3.5 Solve mathematical and real-world problems moving composite functions.
	MA.912.F.1.6 Compare kay finatures of lawar and nonlinear function see And represented algebraically, graphically, in tables or written descriptions. MA.912.F.1.7 Compare key fisatures of non functions each tradescriptions. MA.912.F.1.8 Determine whether a lawar, quadratic or exponential function best models a given real world situation. MA.912.F.1.9 Determine whether a lawar, quadratic or exponential function best models a given real world situation.		values by a real number.		MA 912.F.3.6 Determine whether as inverse function exists by analyzing tables, graphs and equations. MA 912.F.3.7 Represent the inverse of a function approvingly, papelosity or in a table tube compatibile of functions to verify that one function in the inverse of the other. MA 912.F.3.8 Produce as invertible functions from a non- mertible function by restricting the domain. MA 912.F.3.9 Solve antihematical and real-work problems modules income.

MA.912.FL.1	MA.912.FL.1.1	MA.912.FL.2	MA.912.FL.2.1	MA.912.FL.3	MA.912.FL.3.1	MA.912.FL.4	MA.912.FL.4.1
Build	Extend previous knowledge of operations of	Develop an	Given assets and liabilities, calculate net	Describe the	Compare simple, compound and continuously	Describe the	Calculate and compare various options,
mathematical	fractions, percentages and decimals to solve real-world problems involving money and	understanding of	worth using spreadsheets and other technology.	advantages and	compounded interest over time.	advantages and	deductibles and fees for various types of insurance policies using spreadsheets and
foundations for		basic accounting		disadvantages		disadvantages	other technology.
financial	MA.912.FL.1.2	and economic	MA.912.FL.2.2	of short-term	MA.912.FL.3.2	of financial and	MA.912.FL.4.2
literacy.	Extend previous knowledge of ratios and	principles	Solve real-world problems involving profits,	and long-term	Solve real-world problems involving simple,	investment	Compare the advantages and disadvantages
incertacy.	proportional relationships to solve real-world problems involving money and business.	principies:	costs and revenues using spreadsheets and other technology.	purchases.	compound and continuously compounded interest	plans, including	for adding on a one-time warranty to a purchase using spreadsheets and other
	problems involving money and business.		other technology.	purchases.	interest.	insurances.	technology.
	MA.912.FL.1.3		MA.912.FL.2.3		MA.912.FL.3.3	insulances.	MA.912.FL.4.3
	Solve real-world problems involving weighted		Explain how consumer price index (CPI), gross		Solve real-world problems involving present		Compare the advantages and disadvantages
	averages using spreadsheets and other technology.		domestic product (GDP), stock indices, unemployment rate and trade deficit are		value and future value of money.		of various retirement savings plans using spreadsheets and other technology.
			calculated. Interpret their value in terms of				
			MA.912.FL.2.4		MA.912.FL.3.4		MA.912.FL.4.4
			Given current exchange rates, convert		Explain the relationship between simple		Collect, organize and interpret data to
			between currencies. Solve real-world		interest and linear growth. Explain the		determine an effective retirement savings
			problems involving exchange rates.		relationship between compound interest and exponential growth and the relationship		plan to meet personal financial goals using spreadsheets and other technology.
					between continuously compounded interest		spreadsheets and other technology.
					and exponential growth.		
			MA.912.FL.2.5		MA.912.FL.3.5		MA.912.FL.4.5
			Develop budgets that fit within various		Compare the advantages and disadvantages		Compare different ways that portfolios can be diversified in investments.
			incomes using spreadsheets and other technology.		of using cash versus personal financing options.		be diversified in investments.
			MA.912.FL.2.6		MA.912.FL.3.6		MA.912.FL.4.6
			Given a real-world scenario, complete and		Calculate the finance charges and total		Simulate the purchase of a stock portfolio
			calculate federal income tax using spreadsheets and other technology.		amount due on a bill using various forms of credit using estimation, spreadsheets and		with a set amount of money, and evaluate its worth over time considering gains, losses and
					other technology.		selling, taking into account any associated
							fees.
					MA.912.FL.3.7		
					Compare the advantages and disadvantages		
					of different types of student loans by manipulating a variety of variables and		
					calculating the total cost using spreadsheets		
					and other technology.		
					MA.912.FL.3.8		
					Calculate using spreadsheets and other technology the total cost of purchasing		
					consumer durables over time given different		
					monthly payments, down payments,		
					financing options and fees.		
					MA.912.FL.3.9		
					Compare the advantages and disadvantages of different types of mortgage loans by		
					manipulating a variety of variables and		
					calculating fees and total cost using spreadsheets and other technology.		
					MA.912.FL.3.10 Analyze credit scores qualitatively. Explain		
					how short-term and long-term purchases,		
					including deferred payments, may increase or		
					Including deferred payments, may increase or decrease credit scores. Explain how credit scores influence buying power.		
					including deferred payments, may increase or decrease credit scores. Explain how credit		
					Including deferred payments, may increase or decrease credit scores. Explain how credit scores influence buying power. MA.912.FL.3.11		
					Including deferred payments, may increase or decrease credit scores. Explain how credit scores influence buying power. MA.912.FL.3.11 Given a real-world scenario, establish a plan to pay off decit. MA.912.FL.3.12		
					Including deferred payments, may increase or decrease credit scores. Explain how credit scores influence buying power. MA.912.FL.3.11 Given a real-world scenario, establish a plan to pay off debt.		

	MA.912.GR.1 Prove and	MA.912.GR.1.1 Prove relationships and theorems about lines	MA.912.GR.2 Apply properties	MA.912.GR.2.1 Given a preimage and image, describe the	MA.912.GR.3 Use coordinate	MA.912.GR.3.1 Determine the weighted average of two or	MA.912.GR.4 Use geometric	MA.912.GR.4.1 Identify the shapes of two-dimensional cross-	MA.912.GR.5 Make formal	MA.912.GR.5.1 Construct a copy of a segment or an angle.	MA.912.GR.6 Use properties	MA.912.GR.6.1 Solve mathematical and real-world problems	MA.912.GR.7 Apply geometric	MA.912.GR.7.1 Given a conic section, describe how it can
	apply	and angles. Solve mathematical and real- world problems involving postulates, relationships and theorems of lines and	of	transformation and represent the transformation algebraically using coordinates.	geometry to	more points on a line.	measurement	sections of three-dimensional figures.	geometric		and theorems	involving the length of a secant, tangent, segment or chord in a given circle.	and algebraic	result from the slicing of two cones.
	geometric theorems to	angles.	transformations to describe	coordinates.	solve problems or prove		and dimensions to solve		constructions with a variety		related to circles.		representations of conic	
	solve problems.	MA.912.GR.1.2 Prove triangle congruence or similarity using Side-Side, Side-Angle-Side, Angle-Angle-Side- Angle, Angle-Angle-Side, Angle-Angle and Hypotenuse-Leg.	congruence or similarity.	MA.912.GR.2.2 Identify transformations that do or do not preserve distance.	relationships.	MA.912.GR.3.2 Given a mathematical context, use coordinate geometry to classify or justify definitions, properties and theorems involving circles, triangles or quadrilaterals.	problems.	MA.912.GR.4.2 Identify three-dimensional objects generated by rotations of two-dimensional figures.	of tools and methods.	MA.912.GR.5.2 Construct the bisector of a segment or an angle, including the perpendicular bisector o a line segment.	f	MA.912.GR.6.2 Solve mathematical and real-world problems involving the measures of arcs and related angles.	sections.	MA.912.GR.7.2 Given a mathematical or real-world context, derive and create the equation of a circle using key features.
(MA.912.GR.1.3 Prove relationships and theorems about triangles. Solve mathematical and real-world problems involving postulates, relationships and theorems of triangles.		MA.912.GR.2.3 Specify a sequence of transformations that will map a given figure onto itself or onto another congruent or similar figure.		MA.912.GR.3.3 Use coordinate geometry to solve mathematical and real-world geometric problems involving lines, circles, triangles and quadrilaterals.		MA.912.GR.4.3 Extend previous understanding of scale drawings and scale factors to determine how dilations affect the area of two-dimensional figures and the surface area or volume of three-dimensional figures.		MA.912.GR.5.3 Construct the inscribed and circumscribed circles of a triangle.		MA.912.GR.6.3 Solve mathematical problems involving triangles and quadrilaterals inscribed in a circle.		MA.912.GR.7.3 Graph and solve mathematical and real-world problems that are modeled with an equation of a circle. Determine and interpret key features in terms of the context.
ASONING (GR)		MA.912.GR.1.4 Prove relationships and theorems about parallelograms. Solve mathematical and real- world problems involving postulates, relationships and theorems of parallelograms.		MA.912.GR.2.4 Determine symmetries of reflection, symmetries of rotation and symmetries of translation of a geometric figure.		MA.912.GR.3.4 Use coordinate geometry to solve mathematical and real-world problems on the coordinate plane involving perimeter or area of polygons.		MA.912.GR.4.4 Solve mathematical and real-world problems involving the area of two-dimensional figures.		MA.912.GR.5.4 Construct a regular polygon inscribed in a circle. Regular polygons are limited to triangles, quadrilaterals and hexagons.		MA.912.GR.6.4 Solve mathematical and real-world problems involving the arc length and area of a sector in a given circle.		MA.912.GR.7.4 Given a mathematical or real-world context, derive and create the equation of a parabola using key features.
RE,		MA.912.GR.1.5 Prove relationships and theorems about trapezoids. Solve mathematical and real- world problems involving postulates, relationships and theorems of trapezoids.		MA.912.GR.2.5 Given a geometric figure and a sequence of transformations, draw the transformed figure on a coordinate plane.				MA.912.GR.4.5 Solve mathematical and real-world problems involving the volume of three-dimensional figures limited to cylinders, pyramids, prisms, cones and spheres.		MA.912.GR.5.5 Given a point outside a circle, construct a lini tangent to the circle that passes through the given point.		MA.912.GR.6.5 Apply transformations to prove that all circles are similar.		MA.912.GR.7.5 Graph and solve mathematical and real-world problems that are modeled with an equation of a parabola. Determine and interpret key features in terms of the context.
GEOMETRIC		MA.912.GR.1.6 Solve mathematical and real-world problems involving congruence or similarity in two- dimensional figures.		MA.912.GR.2.6 Apply rigid transformations to map one figure onto another to justify that the two figures are congruent.				MA.912.GR.4.6 Solve mathematical and real-world problems involving the surface area of three- dimensional figures limited to cylinders, pyramids, prisms, cones and spheres.						MA.912.GR.7.6 Given a mathematical or real-world context, derive and create the equation of an ellipse using key features.
				MA.912.GR.2.7 Justify the criteria for triangle congruence using the definition of congruence in terms of rigid transformations.										MA.912.GR.7.7 Graph and solve mathematical and real-world problems that are modeled with an equation of an ellipse. Determine and interpret key features in terms of the context.
				MA.912.GR.2.8 Apply an appropriate transformation to map one figure onto another to justify that the two figures are similar. MA.912.GR.2.9										MA.912.GR.7.8 Given a mathematical or real-world context, derive and create the equation of a hyperbolia using key features. MA.912.GR.7.9
				Justify the criteria for triangle similarity using the definition of similarity in terms of non- rigid transformations.										Graph and solve mathematical and real-world problems that are modeled with an equation of a hyperbola. Determine and interpret key features in terms of the context.

	MA.912.T.1	MA.912.T.1.1	MA.912.T.2	MA.912.T.2.1	MA.912.T.3	MA.912.T.3.1	MA.912.T.4	MA.912.T.4.1
	Define and use	Define trigonometric ratios for acute angles in right triangles.	Extend	Given any positive or negative angle measure in degrees or radians, identify its	Graph and	Given a mathematical or real-world context, choose sine, cosine or tangent trigonometric	Extend	Define and plot polar coordinates. Convert between polar coordinates and rectangular
	trigonometric		trigonometric	corresponding angle measure between 0°	apply		rectangular	coordinates with and without the use of
	ratios,		functions to the	and 360° or between 0 and 2π. Convert between degrees and radians.	trigonometric	specified amplitude, frequency, horizontal shift and midline.	coordinates	technology.
	identities or		unit circle.		relations and		and equations	
	functions to	MA.912.T.1.2		MA.912.T.2.2	functions.	MA.912.T.3.2	to polar and	MA.912.T.4.2
	solve problems.	Solve mathematical and real-world problems involving right triangles using trigonometric ratios and the Pythagorean Theorem.		Define the six basic trigonometric functions for all real numbers by identifying corresponding angle measures and using right triangles drawn in the unit circle.		Given a table, equation or written description of a trigonometric function, graph that function and determine key features.	parametric forms.	Represent equations given in rectangular coordinates in terms of polar coordinates. Represent equations given in polar coordinates in terms of rectangular coordinates.
		MA.912.T.1.3		MA.912.T.2.3		MA.912.T.3.3		MA.912.T.4.3
		Apply the Law of Sines and the Law of		Determine the values of the six basic		Solve and graph mathematical and real-world		Graph equations in the polar coordinate
~		Cosines to solve mathematical and real-world problems involving triangles.		trigonometric functions for 0, $\pi/6$, $\pi/3$ and $\pi/4$ and their multiples using special triangles.		problems that are modeled with trigonometric functions. Interpret key		plane with and without the use of graphing technology.
۲ (E)		prosents involving tranges.		re- me crea marches carry special charges.		features and determine constraints in terms of the context.		tetimology.
Ĕ		MA.912.T.1.4		MA.912.T.2.4				MA.912.T.4.4
<u> </u>		Solve mathematical problems involving		Use the unit circle to express the values of sine, cosine and tangent for $\pi - x$, $\pi + x$ and				Identify and graph special polar equations,
Σ		finding the area of a triangle given two sides and the included angle.		sine, cosine and tangent for $\pi - x$, $\pi + x$ and $2\pi - x$ in terms of their values for x, where x is				including circles, cardioids, limacons, rose curves and lempiscates
FRIGONOMETRY				any real number.				
0		MA.912.T.1.5		MA.912.T.2.5				MA.912.T.4.5
G		Prove Pythagorean Identities. Apply Pythagorean Identities to calculate		Given angles measured in radians or degrees, calculate the values of the six basic				Sketch the graph of a curve in the plane represented parametrically, indicating the
Ĕ		rigonometric ratios and to solve problems.		trigonometric functions using the unit circle,				direction of motion.
				trigonometric identities or technology.				
		MA.912.T.1.6						MA.912.T.4.6
		Prove the Double-Angle, Half-Angle, Angle						Convert from a parametric representation of
		Sum and Difference formulas for sine, cosine, and tangent. Apply these formulas to solve						a plane curve to a rectangular equation, and convert from a rectangular equation to a
		problems.						parametric representation of a plane curve.
		MA 912 T 1.7						MA 912 T.4.7
		Simplify expressions using trigonometric identities.						Apply parametric equations to model applications of motion in the plane.
		MA.912.T.1.8 Solve mathematical and real-world problems						
		solve mathematical and real-world problems involving one-variable trigonometric ratios.						

	MA.912.DP.1	MA.912.DP.1.1	MA.912.DP.2	MA.912.DP.2.1	MA.912.DP.3	MA.912.DP.3.1	MA.912.DP.4	MA.912.DP.4.1	MA.912.DP.5	MA.912.DP.5.1	MA.912.DP.6	MA.912.DP.6.1
	Summarize, represent and interpret categorical and numerical data	Given a set of data, select an appropriate method to represent the data, depending on whether it is numerical or categorical data and on whether it is univariate or bivariate.	Solve problems involving univariate and bivariate numerical data.	measures of center and measures of variability, accounting for possible effects of outliers. Interpret any notable features of the	Solve problems involving categorical data.	Construct a two-way frequency table summarizing bivariate categorical data. Interpret joint and marginal frequencies and determine possible associations in terms of a real-world context.	Use and interpret independence and probability.	Describe events as subsets of a sample space using characteristics, or categories, of the outcomes, or as unions, intersections or complements of other events.	Determine methods of data collection and make inferences from	Distinguish between a population parameter and a sample statistic.	Use probability distributions to solve problems.	Define a random variable for a quantity of interest by assigning a numerical value to each individual outcome in a sample space; graph the corresponding probability distribution using the same graphical displays as for data distributions.
	with one and two variables.	MA.912.DP.1.2 Interpret data distributions represented in various ways. State whether the data is numerical or categorical, whether it is univariate or bivariate and interpret the different components and quantities in the display.		MA.912.DP.2.2 Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate.		MA.912.DP.3.2 Given marginal and conditional relative frequencies, construct a two-way relative frequency table summarizing categorical bivariate data.		MA.912.DP.4.2 Determine if events A and B are independent by calculating the product of their probabilities.	collected data.	MA.912.DP.5.2 Explain how random sampling produces data that is representative of a population.		MA.912.DP.6.2 Develop a probability distribution for a discrete random variable using theoretical probabilities. Find the expected value and interpret it as the mean of the discrete distribution.
		MA.912.DP.1.3 Explain the difference between correlation and causation in the contexts of both numerical and categorical data.		MA.912.DP.2.3 Estimate population percentages from data that has been fit to the normal distribution.		MA.912.DP.3.3 Given a two-way relative frequency table or segmented bar graph summarizing categorical bivariate data, interpret joint, marginal and conditional relative frequencies in terms of a real-world context.		MA.912.DP.4.3 Calculate the conditional probability of two events and interpret the result in terms of its context.		MA.912.DP.5.3 Compare and contrast sampling methods.		MA.912.DP.6.3 Develop a probability distribution for a discrete random variable using empirical probabilities. Find the expected value and interpret it as the mean of the discrete distribution.
DP)		MA.912.DP.1.4 Estimate a population total, mean or percentage using data from a sample survey; develop a margin of error through the use of simulation.		MA.912.DP.2.4 Fit a linear function to bivariate numerical data that suggests a linear association and interpret the slope and y-intercept of the model. Use the model to solve real-world problems in terms of the context of the data.		MA.912.DP.3.4 Given a relative frequency table, construct and interpret a segmented bar graph.		MA.912.DP.4.4 Interpret the independence of two events using conditional probability.		MA.912.DP.5.4 Generate multiple samples or simulated samples of the same size to measure the variation in estimates or predictions.		MA.912.DP.6.4 Given a binomial distribution, calculate and interpret the expected value. Solve real- world problems involving binomial distributions.
РКОВАВІLITY (DP)		MA.912.DP.1.5 Interpret the margin of error of a mean or percentage from a data set. Interpret the confidence level corresponding to the margin of error.		MA.912.0P.2.5 Given a scatter pot hat represents bivariate numerical data, assess the fit of a given linear function by plotting and analyzing residuals.		MA.912.DP.3.5 Solve real-world problems involving univariate and bivariate categorical data.		MA.912.DP.4.5 Given a two-way table containing data from a population, interpret the joint and marginal relative frequencies as empirical probabilities and the conditional relative frequencies as empirical conditional probabilities. Use those probabilities to determine whether characteristics in the population are approximately independent.		MA.912.DP.5.5 Determine if a specific model is consistent within a given process by analyzing the data distribution from a data-generating process.		MA.912.DP.6.5 Solve real-world problems involving geometric distributions.
∞ õ				MA.912.DP.2.6 Given a scatter plot with a line of fit and residuals, determine the strength and direction of the correlation. Interpret strength and direction within a real-world context.				MA.912.DP.4.6 Recognize and explain the concepts of conditional probability and independence in everyday language and everyday situations.		MA.912.DP.5.6 Determine the appropriate design, survey, experiment or observational study, based on the purpose. Articulate the types of questions appropriate for each type of design.		MA.912.DP.6.6 Solve real-world problems involving Poisson distributions.
DATA ANALYSIS				MA.912.DP.2.7 Compute the correlation coefficient of a linear model using technology. Interpret the strength and direction of the correlation coefficient.				MA.912.DP.4.7 Apply the addition rule for probability, taking into consideration whether the events are mutually excluse, and interpret the result in terms of the model and its context.		MA.912.DP.5.7 Compare and contrast surveys, experiments and observational studies.		MA.912.DP.6.7 Weigh the possible outcomes of a decision by assigning probabilities to payoff values and finding expected values and standard deviations. Evaluate and compare strategies on the basis of the calculated expected values and standard deviations.
				MA.912.DP.2.8 Fit a quadratic function to bivariate numerical data that suggests a quadratic association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data.				MA.912.DP.4.8 Apply the general multiplication rule for probability, taking into consideration whether the events are independent, and interpret the result in terms of the context.		MA.912.DP.5.8 Draw inferences about two populations using data and statistical analysis from two random samples.	r	MA.912.DP.6.8 Apply probabilities to make fair decisions, such as drawing from lots or using a random number generator
				MA.912.DP.2.9 Fit an exponential function to bivariate numerical data that suggests an exponential association. Use the model to solve real- world problems in terms of the context of the data.				MA.912.DP.4.9 Apply the addition and multiplication rules for counting to solve mathematical and real- world problems, including problems involving probability.		MA.912.DP.5.9 Compare two treatments using data from an experiment in which the treatments are assigned randomly.		u u
								MA.912.DP.4.10 Given a mathematical or real-world situation, calculate the appropriate permutation or combination.		MA.912.DP.5.10 Determine whether differences between parameters are significant using simulations.		
										MA.912.DP.5.11 Evaluate reports based on digital resources by interpreting graphs and tables; evaluating data-based arguments; determining whether a valid sampling method was used; or interpreting provided statistics.		

Opport Opport<	MA.912.LT.5.1
Nethods to solve problems. methods to solve problems. methods to solve problems. methods to solve problems. under the method propertice of the methods of t	Given two sets, determine whether the two sets are equivalent and whether one set is a
By ore productions MA.912.17.1.2 Sube productions involving returning applications MA.912.17.2.0 Sube productions involving returning applications MA.912.17.2.0 Sube productions involving returning applications MA.912.17.3.0 MA.912.17.3.3 Apply instrumentation in a variety of applications MA.912.17.3.2 MA.912.17.3.3 Sube scheduling productions in a variety of applications MA.912.17.3.2 MA.912.17.3.3 Sube scheduling productions in a variety of applications MA.912.17.3.4 MA.912.17.3.4 Sube productions in a variety of a scheduling production in a variety of a scheduling productin and scheduling productions in a variety of a schedul	subset of another. Given one set, determine
OP 000000000000000000000000000000000000	its power set.
1000000000000000000000000000000000000	
MA912LT.13 Aply rathematical induction in a variety of problems. MA912LT.23 Aply rathematical induction in a variety of problems. MA912LT.33 Aply rathematical induction in a variety of problems. MA912LT.33 Bend events of une problems. MA912LT.34 Aply rathematical induction in a variety of problems. MA912LT.34 Apply rathematical induction induction induction problems. MA912LT.34 Apply rathematical induction induction problems. MA912LT.34 Apply rathematical induction induction problems. MA912LT.34 Apply rathematical induction problems. MA912LT.34 Apply rathematical induction problems. MA912LT.35 Apply rathematical induction problems. MA912LT.35 Apply rathematical induction and problems. MA912LT.35 Apply rathemati	Given a relation on two sets, determine whether the relation is a function, determine
M-912LT1.3 Apply indification is a watery of applications. M-912LT.2.3 M-912LT.3 Decide this. M-912LT.3 Decide this. methods of any explications. M-912LT.3.4 M-912LT.3.5	the inverse of the relation if it exists and
No. 312.11.12.5 MA.912.L17.2.6 MA.912.L17.2.5 MA.912.L17.2.5 MA.912.L17.2.5 MA.912.L17.2.5 MA.912.L17.2.5 MA.912.L17.2.5 MA.912.L17.2.6 MA.912.L17.2.7 MA.912.L17.2	identify if the relation is bijective.
applications. analysis and darit durits. Carels a standade weight during trachinges. Provide range during during trachinges. Provide range during during trachinges. Provide range during	MA.912.LT.5.3
Image: Section of the state of the stat	Partition a set into disjoint subsets and
Image:	determine an equivalence class given the equivalence relation on a set.
MA 912 LT 2.4 MA 912 LT 3.4 MA 9	
Apply grant coloring techniques to solve Solve problems, such für division and apportionment techniques. Reported to construct products, such ARAD, OK Provide Provide	MA 912 IT 5.4
MA 912.1T.2.5 MA 912.1T.2.6 MA 912.1T.2.6 MA 912.1T.2.6 MA 912.1T.2.6 MA 912.1T.2.6 MA.912.1T.2.6 MA.912.1T.2.6 MA 912.1T.2.6 MA 912.1T.2.6 MA.912.1T.2.6 MA.912.1T.2.6 MA 912.1T.2.7 Sole problem: scoreining optimizing rechniques. MA 912.1T.2.7 Sole problem: score trees in a score trees in a score trees in a score trees in a score tree score tree in a score tree sc	IVIA.912.L1.5.4 Perform the set operations of taking the
MA 912.1T.2.5 MA 912.1T.2.6 MA 912.1T.2.6 MA 912.1T.2.6 MA 912.1T.2.6 MA 912.1T.2.6 MA.912.1T.2.6 MA.912.1T.2.6 MA 912.1T.2.6 MA 912.1T.2.6 MA.912.1T.2.6 MA.912.1T.2.6 MA 912.1T.2.7 Sole problem: scoreining optimizing rechniques. MA 912.1T.2.7 Sole problem: score trees in a score trees in a score trees in a score trees in a score tree score tree in a score tree sc	complement of a set and the union,
MA 912.17.2.5 MA 912.17.3.5 MA 912.17.3.5 MA 912.17.3.5 MA 912.17.2.6 MA 912.17.3.6 MA 912.17.3.6 MA 912.17.2.6 MA 912.17.3.6 MA 912.17.3.6 MA 912.17.3.5 MA 912.17.3.6 MA 912.17.3.6 Ma 912.17.3.5 MA 912.17.3.6 MA 912.17.3.6 Ma 912.17.3.5 MA 912.17.3.7 Ma 912.17.3.7 Ma 912.17.3 Ma 912.17.3.7 Ma 912.17.3.7 Ma 912.17.3 Ma 912.17.3.7 Ma 912.17.3.7 Ma 912.17.3 Ma 912.17.3.7 Ma 912.17.3.7 Solve problem: involving optimal strategies in Game Theory. Ma 912.17.3.7 Solve problem: involving optimal strategies in Game Theory. Ma 912.17.3.7 Solve problem: involving optimal strategies in Game Theory. Ma 912.17.3.7 Solve problem: involving optimal strategies in Game Theory. Ma 912.17.3.7 Solve problem: involving optimal strategies in Game Theory. Ma 912.17.3.7 Solve problem: involving optimal strategies in Game Theory. Ma 912.17.3.7 Solve problem: involving optimal strategies in Game Theory. Ma 912.17.3.7 Solve problem: involving optimal strategies in Game Theory. Ma 912.17.3.7 Solve problem: involving optimal strategies in Game Theory. Ma 912.17.3.7	intersection, difference and product of two sets.
Apply spanning trees, solve problems. Determine whether two propositions are spanning of the solve problems. Explosition trees to solve problems. Explosition trees to solve problems. ages1 with the solution trees to solve problems. Ages1 with the solve trees to solve trees	MA.912.LT.5.5
Solve problems concerning optimizing resource using using the packing techniques. Apply methods of firsts and inference of the pro- valit. Pro- valit. MA.912.LT.2.7 Solve problems involving optimal strategies in Same Theory. MA.912.LT.4.7 Solve problems involving optimal strategies in Same Theory. Identify and give samples of indefined producting and dematcal indection, and inductive and deficiency execution.	Explore relationships and patterns and make
Solve problems concerning optimizing resource using using the packing techniques. Apply methods of firsts and inference of the pro- valit. Pro- valit. MA.912.LT.2.7 Solve problems involving optimal strategies in Same Theory. MA.912.LT.4.7 Solve problems involving optimal strategies in Same Theory. Identify and give samples of indefined producting and dematcal indection, and inductive and deficiency execution.	arguments about relationships between sets using Venn Diagrams.
Solve problem concerning colliming reduct using binding scaling includes. Apply methods of firsts and inferences outs. Provide and othermine whethods of firsts and inferences outs. Provide and othermine whethods of firsts and othermine whethods and othermine whethods and othermine whethods of firsts and othods of firsts and othermine whethods of firsts and othermine whet	ang vern biganta.
Solve problems concerning optimizing resource using using the packing techniques. Apply methods of firsts and inference of the pro- valit. Pro- valit. MA.912.LT.2.7 Solve problems involving optimal strategies in Same Theory. MA.912.LT.4.7 Solve problems involving optimal strategies in Same Theory. Identify and give samples of indefined producting and dematcal indection, and inductive and deficiency execution.	MA.912.LT.5.6
WA.912.LT.2.7 MA.912.LT.2.7 Sub-problems involving optimal strategies in Game Theory. MA.912.LT.2.7 Multiple optimal strategies in Game Theory. MA.912.LT.2.7	Prove set relations, including DeMorgan's Laws and equivalence relations.
Game Theory. Game Theory. terms, always, the degrad of the terms, and	aws and equivalence relations.
Game Theory. Game	
proofs using mathematical induction; and inductive and deductive reasoning.	
MA.912.LT.4.8	
Construct proofs, including proofs by constrainting of the second	
contrationa. MA 912.LT 4.9	
Construct logical arguments using laws of	
detachment, yllogium, tautology, contraction and Liver Dayans.	
MA.912.LT.4.10	
Lidge the validity of aguments and give counterexamples to disprove statements.	

MA.912.C.1	MA.912.C.1.1	MA.912.C.2	MA.912.C.2.1	MA.912.C.3	MA.912.C.3.1	MA.912.C.4	MA.912.C.4.1	MA.912.C.5	MA.912.C.5.1
Develop an	Demonstrate understanding of the concept	Develop an	State, understand and apply the definition of	Apply	Find the slope of a curve at a point, including	Develop an	Interpret a definite integral as a limit of	Apply integrals	Find specific antiderivatives using initial
	of a limit and estimate limits from graphs and tables of values.	understanding	derivative. Apply and interpret derivatives geometrically and numerically.		points at which there are vertical tangent lines.	understanding	Riemann sums. Calculate the values of Riemann sums over equal subdivisions using	to solve	conditions, including finding velocity functions from acceleration functions, finding
for limits and	tables of values.	for and	geometrically and numerically.	solve problems.	ines.	for and	left, right and midpoint evaluation points.	problems.	position functions from velocity functions
				solve problems.				problems.	and solving applications related to motion
continuity.		determine				determine			along a line.
Determine	MA.912.C.1.2	derivatives.	MA.912.C.2.2		MA.912.C.3.2	integrals.	MA.912.C.4.2		MA.912.C.5.2
	Determine the value of a limit if it exists algebraically using limits of sums, differences.		Interpret the derivative as an instantaneous rate of change or as the slope of the tangent		Find an equation for the tangent line to a curve at a point and use it to make local linear		Apply Riemann sums, the Trapezoidal Rule and technology to approximate definite		Solve separable differential equations.
continuity.	products, quotients and compositions of		line.		approximation.		integrals of functions represented		
	continuous functions.						algebraically, geometrically and by tables of		
	MA 912 C 1 3		MA.912.C.2.3		MA 912 C 3 3		values. MA.912.C.4.3		MA.912.C.5.3
	Find limits of rational functions that are		Prove the rules for finding derivatives of		Determine where a function is decreasing and		Interpret a definite integral of the rate of		Solve differential equations of the form
	undefined at a point.		constants, sums, products, quotients and the		increasing using its derivative.		change of a quantity over an interval as the		dy/dt=ky as applied to growth and decay
			Chain Rule.				change of the quantity over the interval.		problems.
	MA.912.C.1.4		MA.912.C.2.4		MA.912.C.3.4		MA.912.C.4.4		MA.912.C.5.4
	Find one-sided limits.		Apply the rules for finding derivatives of		Find local and absolute maximum and		Evaluate definite integrals by using the		Display a graphic representation of the
			constants, sums, products, quotients and the Chain Rule to solve problems with functions		minimum points of a function.		Fundamental Theorem of Calculus.		solution to a differential equation by using slope fields, and locate particular solutions to
			limited to algebraic, trigonometric, inverse						the equation.
			trigonometric, logarithmic and exponential.						
	MA.912.C.1.5		MA.912.C.2.5		MA.912.C.3.5		MA.912.C.4.5		MA.912.C.5.5
	Find limits at infinity.		Find the derivatives of implicitly defined		Determine the concavity and points of		Analyze function graphs by using derivative		Find the area between a curve and the x-axis
			functions.		inflection of a function using its second derivative.		graphs and the Fundamental Theorem of Calculus.		or between two curves by using definite integrals.
	MA.912.C.1.6		MA.912.C.2.6		MA.912.C.3.6		MA.912.C.4.6		MA.912.C.5.6
	Decide when a limit is infinite and use limits		Find derivatives of inverse functions		NIA.912.C.3.6 Sketch graphs by using first and second		Evaluate or solve problems using the		Find the average value of a function over a
	involving infinity to describe asymptotic		The derivatives of inverse functions.		derivatives. Compare the corresponding		properties of definite integrals.		closed interval by using definite integrals.
	behavior.				characteristics of the graphs of f, f' and f".		Properties are limited to the following		
	MA 912 C 1 7		MA 912 C 2 7		MA.912.C.3.7		MA.912.C.4.7		MA 912 C 5 7
	Find special limits by using the Squeeze		Find second derivatives and derivatives of		Solve optimization problems using		Evaluate definite and indefinite integrals by		Find the volume of a figure with known cross-
	Theorem or algebraic manipulation.		higher order.		derivatives.		using integration by substitution.		sectional area, including figures of revolution,
									by using definite integrals.
	MA 912 C 1.8		MA.912.C.2.8		MA.912.C.3.8				
	Find limits of indeterminate forms using		Find derivatives using logarithmic		Find average and instantaneous rates of				
	L'Hôpital's Rule.		differentiation.		change. Explain the instantaneous rate of				
					change as the limit of the average rate of change. Interpret a derivative as a rate of				
					change in applications, including velocity,				
					speed and acceleration.				
	MA.912.C.1.9		MA.912.C.2.9		MA.912.C.3.9				
	Define continuity in terms of limits.		Demonstrate and use the relationship		Find the velocity and acceleration of a particle				
			between differentiability and continuity.		moving in a straight line.				
	MA.912.C.1.10 Given the graph of a function, identify		MA.912.C.2.10 Apply the Mean Value Theorem.		MA.912.C.3.10 Model and solve problems involving rates of				
	whether a function is continuous at a point. If		Appry the mean value Theorem.		change, including related rates.				
	not, identify the type of discontinuity for the								
	given function.								
	MA.912.C.1.11 Apply the Intermediate Value Theorem and								
	the Extreme Value Theorem.								