						<b>T</b> . 111
Unit	Objective SWRAT identify and describe patterns	CCRS	Q1	Q2	Q3	Textbook
	SWBAT identify and describe patterns SWBAT evaluate and simplify algebraic expressions using order of operations	N 401 A 301				1-1 1-3
	SWBAT evaluate and simplify algebraic expressions using order of operations SWBAT choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented	A 301				
	by the expression					1-1
, and Inequalities	SWBAT graph and order real numbers	N 703				1-2
	SWBAT identify properties of real numbers	N 703				1-2
	SWBAT explain why sums and products of rational numbers are rational	N 702				1-2
	SWBAT explain why the sum of a rational number and an irrational number is irrational	N 702, N				1-2
		703				
	SWBAT explain why the product of a nonzero rational number and an irrational number is irrational	N 702, N				1-2
	SWBAT interpret parts of an expression, such as terms, factors, and coefficients	703				1-3
Equations,		A 402,				
latio	SWBAT combine like terms using basic operations.	A303	4, 8			1-3
Edu	SWBAT combine like terms using basic operations.	A 402	15			1-4
		AF 502,	2, 3, 7, 20,			
Unit 1: Expressions,	SWBAT solve for a variable in terms of the other variable		24, 27, 47			1-4
Dres	SWBAT solve and graph inequalities on a number line	A 504				1-5
ă	SWBAT write and solve compound inequalities using properties of inequalities (ex. If $a < b$ , then $a + c < b + c$ )	A 504				1-5
t 1:		A 606, N				1-6
- E	SWBAT interpret absolute value as the distance from zero	701	46			1-0
	SWBAT use absolute value to simplify numerical equations	AF 302	1			1-6
	SWBAT write and solve equations and inequalities involving absolute value					1-6
	Spiraled Objectives					
	SWBAT add, subtract, multiply, and divide rational numbers	A 401				
	SWBAT follow order of operations using parentheses and exponents SWBAT use basic operations within the parameters of a specific problem.	A 401 AF 501				
	SWBAT understand that a function assigns to each element of the domain exactly one element of the range	F 506				2-1
	SWBAT identify and graph inputs and outputs of functions.	F 604, AF				
		704				2-1
		AF 602, N				
	SWBAT evaluate functions, given input values.	602, A 512	30, 41, 31			
	NUDAT understand close as the sate of change, change in using change in y unstical change over horizontal change, size over	C E 10 A				2-1
	SWBAT understand slope as the rate of change, change in y over change in x, vertical change over horizontal change, rise over run	G 510, A 406				2-3
						2-3
	SWBAT Determine whether a slope is negative or positive, based on the graph.	F 601, A	52			
sho		406, A 514				2-3
Graphs	SWBAT identify the quadrants of the coordinate plane.	G 704	23, 37			2-3
p 2	SWBAT identify the signs of the x and y values on the coordinate plane	G 704	23			2-3
Equations, and	SWBAT create ordered pairs					2-3
ion	SWBAT write and graph linear functions in slope-intercept form	A 514				2-3
uati	SWBAT Match the slope of a graph to the context of a problem.	G 510, A 406	52			2-3
B	SWBAT write equations and parallel and perpendicular lines	G 606	17			2-3
Suc,	SWBAT write and graph a linear equation in point-slope form	0.000	1/			2-4
cti		A 514, G				
E.	SWBAT compare and contrast when it would be more convenient to use slope intercept versus point slope form	510				2-4
3	SWBAT write linear equations in slope-intercept form to model real-world data from a scatterplot and make predictions	A 514, G				
Unit 2: Functions,		510				2-5
_	SWBAT analyze transformations of functions by identifying the effect on the graph of replacing $f(x)$ by $f(x) + k$					2-6
	SWBAT analyze transformations of functions by identifying the effect on the graph of replacing f(x) by k*f(x)					2-6
	SWBAT analyze transformations of functions by identifying the effect on the graph of replacing f(x) by f(x+k)	F 604, F				2-6
	SWBAT find composite functions by plugging one function into another	708	32			2-6
	Spiraled Objectives					
	SWBAT graph ordered pairs on a coordinate plane	AF 503				
	SWBAT understand slope as the rate of change and change in y over change in x					
	SWBAT identify slope, y-intercept, and x-intercept on a graph					
	SWBAT solve a linear inequality using inverse operations.	A 602	36			
	SWBAT solve an inequality involving a negative value by changing the inequality sign	A 602 A 604, A	36			
	SWBAT solve a linear system using a graph by finding the intersection	A 604, A 503				3-1
	SWBAT solve a linear system using a table by finding the x-value that produces the same y value	A 604				3-1
	SWBAT classify a system of equations as independent, dependent, or inconsistent	A 604				3-1
	SWBAT solve a system of equations using substitution	A 604				3-2
	SWBAT solve a system of equations using elimination	A 604				3-2
	SWBAT determine whether using substitution or elimination would be a more appropriate method for a system of equations	A 604				3-2
		N 406 N				
		N 406, N 505, N				
		505, N 607, N				
		705, N 706				3-6
	SWBAT represent a system of linear equations with a matrix (IF TIME PERMITS)					-
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	SWBAT represent a system of linear equations with a matrix (IF TIME PERMITS)	N 406, N				
	SWBAT represent a system of linear equations with a matrix (IF TIME PERMITS)	N 406, N 505, N				
		N 406, N 505, N 607, N				
	SWBAT to solve a system of linear equations using matrices (IF TIME PERMITS)	N 406, N 505, N				3-6
	SWBAT to solve a system of linear equations using matrices (IF TIME PERMITS) Spiraled Objectives	N 406, N 505, N 607, N 705, N 706				3-6
	SWBAT to solve a system of linear equations using matrices (IF TIME PERMITS) Spiraled Objectives Match simple inequalities with their graphs on the number line	N 406, N 505, N 607, N 705, N 706 A 405				3-6
	SWBAT to solve a system of linear equations using matrices (IF TIME PERMITS) Spiraled Objectives	N 406, N 505, N 607, N 705, N 706				3-6

	SWBAT graph a function of the form $f(x) = ax^2$ by using a table	45.624		14	4-1	
	SWBAT graph a translations of f(x) = x^2	AF 604			4-1	
	SWBAT interpret, write and graph vertex form	G 609			4-1	
	SWBAT find features of a quadratic function on a graphing calculator	C 600		2.	4-2	
	SWBAT identify and graph the properties of a quadratic function in standard form SWBAT convert from standard form to vertex form	G 609		34	4-2	
		G 609			4-2	
	SWBAT interpret a quadratic graph within a word problem SWBAT write the equation of a parabola in standard form given 3 points	G 609			4-2	
					4-3	
	SWBAT compare quadratic models in word problems SWBAT enter data, used QuadReg, and find the min / max of a parabola on a graphing calculator	G 609			4-3	
	Swort enter data, used Quadres, and find the first rink of a parabola of a graphing calculator	A 506, A			4-5	,
	SWBAT find common and binomial factors of quadratic equations	507	6	16	4-4	L I
	SWBAT factor special quadratic equations (perfect trinomial, difference of two squares)	A 508			4-4	
Suo	SWBAT solve a quadratic equation by factoring	A 605	6		4-5	
Equations	SWBAT solve a quadratic equation by factoring	A 605			4-5	
Egu		A 605, G				
p	SWBAT solve a quadratic equation by graphing	609			4-5	5
sai	SWBAT use a quadratic equation to determine the max / min, domain, and range of a word problem			52	4-5	;
ion	SWBAT solve quadratic equations using the quadratic formula	A 605			4-7	,
nct	SWBAT determine the number of solutions by using the discriminant				4-7	,
E	SWBAT solve and graph systems of linear and quadratic equations		57		4-9	)
atic	SWBAT solve and graph systems of quadratic inequalities	A 702	57		4-9	)
adr	Spiraled Objectives:					
ő	SWBAT solve a linear inequality using inverse operations.	A 602	36	55		
Unit 4: Quadratic Functions and	SWBAT solve an inequality involving a negative value by changing the inequality sign	A 602	36	55		
lit	SWBAT combine like terms using basic operations.	A 402,	4, 8, 15			
5		A303	7, 0, 13			
		AF 502,	2, 3, 7, 20,			
	SWBAT solve for a variable in terms of the other variable	AF 502, A402	2, 3, 7, 20, 24, 27, 47			
		/1402	24, 27, 47			
		AF 602, N				
	SWBAT evaluate functions, given input values.	602, A 512	30, 41, 31			
	SWBAT identify the quadrants of the coordinate plane.	G 704	23, 37			
	SWBAT understand slope as the rate of change, change in y over change in x, vertical change over horizontal change, rise over	G 510, A				
	run	406				
		F 601, A				
	SWBAT Determine whether a slope is negative or positive, based on the graph.	406, A 514	52			
	SWBAT classify polynomials by degree and number of terms	F 501	4		5-1	L
	SWBAT graph polynomial functions and describe end behavior	F 508, F				
		509			5-1	
	SWBAT write and analyze the factored form of a polynomial	F 501			5-2	
	SWBAT write a polynomial function from its zeros	F 501			5-2	
	SWBAT write a polynomial function from its zeros SWBAT solve polynomial equations by factoring	F 501		25		
S	SWBAT solve polynomial equations by factoring	F 501 F 508, F		25	5-3	}
ions	SWBAT solve polynomial equations by factoring SWBAT solve polynomial equations (find the real roots) by graphing	F 501 F 508, F 509		25	5-3	3
inctions	SWBAT solve polynomial equations by factoring SWBAT solve polynomial equations (find the real roots) by graphing SWBAT divide polynomials using long division	F 501 F 508, F 509 A 505		25	5-3 5-3 5-4	3 3
l Functions	SWBAT solve polynomial equations by factoring SWBAT solve polynomial equations (find the real roots) by graphing SWBAT divide polynomials using long division SWBAT solve equations using the Rational Root Theorem	F 501 F 508, F 509 A 505 F 501		25	5-3 5-3 5-4 5-5	3 3 4 5
nial Functions	SWBAT solve polynomial equations by factoring SWBAT solve polynomial equations (find the real roots) by graphing SWBAT divide polynomials using long division SWBAT solve equations using the Rational Root Theorem SWBAT use Descartes Rule of Signs to find the real roots	F 501 F 508, F 509 A 505		25	5-3 5-3 5-4 5-5 5-5 5-5	3 3 4 5
nomial Functions	SWBAT solve polynomial equations by factoring SWBAT solve polynomial equations (find the real roots) by graphing SWBAT divide polynomials using long division SWBAT solve equations using the Rational Root Theorem	F 501 F 508, F 509 A 505 F 501		25	5-3 5-3 5-4 5-5	3 3 4 5
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d Polynomial Functions	SWBAT solve polynomial equations by factoring SWBAT solve polynomial equations (find the real roots) by graphing SWBAT divide polynomials using long division SWBAT solve equations using the Rational Root Theorem SWBAT use Descartes Rule of Signs to find the real roots	F 501 F 508, F 509 A 505 F 501 F 501		25	5-3 5-3 5-4 5-5 5-5 5-6	3 3 4 5 5
5	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial equations (find the real roots) by graphing         SWBAT divide polynomials using long division         SWBAT solve equations using the Rational Root Theorem         SWBAT use Descartes Rule of Signs to find the real roots         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT fit scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator	F 501 F 508, F 509 A 505 F 501 F 501 N 504, N		25	5-3 5-3 5-4 5-5 5-5 5-6 5-6 5-8	3 4 5 5 3
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and	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial equations (find the real roots) by graphing         SWBAT divide polynomials using long division         SWBAT solve equations using the Rational Root Theorem         SWBAT use Descartes Rule of Signs to find the real roots         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT fit scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator         SWBAT apply transformations to graphs of polynomials and find their zeros         Spiraled Objectives         SWBAT follow order of operations using parentheses and exponents         SWBAT use basic operations within the parameters of a specific problem.         SWBAT combine like terms using basic operations.         SWBAT solve for a variable in terms of the other variable         SWBAT identify the quadrants of the coordinate plane.         SWBAT find all real roots	F 501 F 508, F 509 A 505 F 501 F 501 N 504, N 606, N 704 A 606, N 704 A 401 A 402, A 401 A 402, A 303 A F 502, A 402 A 402 A 502, N 602, A 512 G 704 N 703	4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37		5-3 5-4 5-5 5-5 5-6 5-8 5-9 5-9 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3
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and	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial equations (find the real roots) by graphing         SWBAT divide polynomials using long division         SWBAT solve equations using the Rational Root Theorem         SWBAT use Descartes Rule of Signs to find the real roots         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT fit scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator         SWBAT apply transformations to graphs of polynomials and find their zeros         Spiraled Objectives         SWBAT follow order of operations using parentheses and exponents         SWBAT use basic operations within the parameters of a specific problem.         SWBAT combine like terms using basic operations.         SWBAT solve for a variable in terms of the other variable         SWBAT identify the quadrants of the coordinate plane.         SWBAT find all real roots	F 501 F 508, F 509 A 505 F 501 F 501 F 501 A 506, N 704 A 606, N 704 A 401 A 401 A 402, A303 AF 501 A 402, A303 AF 502, A402 AF 602, N 602, A 512 G 704 N 703 A 509	4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37		5-3 5-4 5-5 5-5 5-6 5-8 5-9 5-9 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 5 5 9 
and	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial equations (find the real roots) by graphing         SWBAT divide polynomials using long division         SWBAT solve equations using the Rational Root Theorem         SWBAT use Descartes Rule of Signs to find the real roots         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT fit scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator         SWBAT apply transformations to graphs of polynomials and find their zeros         Spiraled Objectives         SWBAT follow order of operations using parentheses and exponents         SWBAT use basic operations within the parameters of a specific problem.         SWBAT solve for a variable in terms of the other variable         SWBAT identify the quadrants of the coordinate plane.         SWBAT find all real roots         SWBAT identify the quadrants of the coordinate plane.         SWBAT simplify radical expressions	F 501 F 508, F 509 A 505 F 501 F 501 N 504, N 606, N 704 A 606, N 704 A 401 AF 501 A 402, A303 AF 502, A402 AF 602, N 602, A 512 G 704 N 703 A 509 N 504, N	4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37 19		5-3 5-4 5-5 5-5 5-5 5-8 5-8 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 5 5 9 
and	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial equations (find the real roots) by graphing         SWBAT divide polynomials using long division         SWBAT solve equations using the Rational Root Theorem         SWBAT use Descartes Rule of Signs to find the real roots         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT fit scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator         SWBAT apply transformations to graphs of polynomials and find their zeros         Spiraled Objectives         SWBAT follow order of operations using parentheses and exponents         SWBAT use basic operations within the parameters of a specific problem.         SWBAT solve for a variable in terms of the other variable         SWBAT identify the quadrants of the coordinate plane.         SWBAT find all real roots         SWBAT identify the quadrants of the coordinate plane.         SWBAT simplify radical expressions	F 501 F 508, F 509 A 505 F 501 F 501 N 504, N 606, N 704 A 606, N 704 A 401 AF 501 A 402, A303 AF 502, A402 AF 602, N 602, A 512 G 704 N 703 A 509 N 504, N	4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37 19		5-3 5-4 5-5 5-5 5-5 5-8 5-8 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 5 5 9 
and	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial equations (find the real roots) by graphing         SWBAT divide polynomials using long division         SWBAT solve equations using the Rational Root Theorem         SWBAT use Descartes Rule of Signs to find the real roots         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT fit scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator         SWBAT apply transformations to graphs of polynomials and find their zeros         Spiraled Objectives         SWBAT follow order of operations using parentheses and exponents         SWBAT use basic operations within the parameters of a specific problem.         SWBAT solve for a variable in terms of the other variable         SWBAT identify the quadrants of the coordinate plane.         SWBAT find all real roots         SWBAT identify the quadrants of the coordinate plane.         SWBAT simplify radical expressions	F 501 F 508, F 509 A 505 F 501 F 501 N 504, N 606, N 704 A 401 A 402, A 303 A 402, A 303 A F 502, A 402 A 402 A 402 A 501 A 402, A 303 A F 502, A 402 A 509 N 504, N 606, N 704	4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37 19 48 48		5-3 5-4 5-5 5-5 5-5 5-8 5-8 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7
and	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial equations (find the real roots) by graphing         SWBAT divide polynomials using long division         SWBAT solve equations using the Rational Root Theorem         SWBAT use Descartes Rule of Signs to find the real roots         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT fit scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator         SWBAT apply transformations to graphs of polynomials and find their zeros         Spiraled Objectives         SWBAT follow order of operations using parentheses and exponents         SWBAT combine like terms using basic operations.         SWBAT solve for a variable in terms of the other variable         SWBAT identify the quadrants of the coordinate plane.         SWBAT isolve for a variable in terms of the coordinate plane.         SWBAT isolity the quadrants of the coordinate plane.         SWBAT simplify radical expressions         SWBAT simplify radical expressions	F 501 F 508, F 509 A 505 F 501 F 501 N 504, N 606, N 704 A 401 A 402, A 303 A 402, A 402 A 402, A 402 A 402, A 402 A 402 A 502, A 402 A 509 N 504, N 606, N 704 N 504, N	4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37 19 48		5-3 5-4 5-5 5-5 5-6 5-8 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 9 9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1
and	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial equations (find the real roots) by graphing         SWBAT divide polynomials using long division         SWBAT solve equations using the Rational Root Theorem         SWBAT use Descartes Rule of Signs to find the real roots         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT fit scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator         SWBAT apply transformations to graphs of polynomials and find their zeros         Spiraled Objectives         SWBAT follow order of operations using parentheses and exponents         SWBAT combine like terms using basic operations.         SWBAT solve for a variable in terms of the other variable         SWBAT find all real roots         SWBAT find all real roots         SWBAT identify the quadrants of the coordinate plane.         SWBAT simplify radical expressions         SWBAT identify, graph, and perform operations with complex numbers	F 501 F 508, F 509 A 505 F 501 F 501 N 504, N 606, N 704 A 401 AF 501 A 402, A303 AF 502, A402 AF 602, N 602, A 512 G 704 N 703 A 509 N 504, N 606, N 704	4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37 19 48 48		5-3 5-4 5-5 5-5 5-5 5-8 5-8 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 9 9 9 9 9 9 9 9 9 9 9 9 9
and	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial equations (find the real roots) by graphing         SWBAT divide polynomials using long division         SWBAT solve equations using the Rational Root Theorem         SWBAT use Descartes Rule of Signs to find the real roots         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT fit scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator         SWBAT apply transformations to graphs of polynomials and find their zeros         Spiraled Objectives         SWBAT follow order of operations using parentheses and exponents         SWBAT use basic operations using parentheses and exponents         SWBAT solve for a variable in terms of the other variable         SWBAT identify the quadrants of the coordinate plane.         SWBAT find all real roots         SWBAT identify the quadrants of the coordinate plane.         SWBAT identify, graph, and perform operations with complex numbers         SWBAT identify, graph, and perform operations with complex numbers	F 501 F 508, F 509 A 505 F 501 F 501 N 504, N 606, N 704 A 401 A 401 A 402, A 402, A 402, A 402, A 402, A 402, A 402, A 402, A 402, A 502, N 504, N 606, N 704 N 504, N 606, N 704 A 509	4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37 19 48 48		5-3 5-4 5-5 5-5 5-5 5-6 5-8 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3
Unit 5: Polynomials and	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial equations (find the real roots) by graphing         SWBAT divide polynomials using long division         SWBAT solve equations using the Rational Root Theorem         SWBAT ind all zeros of a polynomial function using a graphing calculator         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT adjust the scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator         SWBAT adjust tract, multiply, and divide rational numbers         SWBAT dollow order of operations using parentheses and exponents         SWBAT use basic operations within the parameters of a specific problem.         SWBAT solve for a variable in terms of the other variable         SWBAT identify the quadrants of the coordinate plane.         SWBAT find all real roots         SWBAT identify complex numbers         SWBAT identify, graph, and perform operations with complex numbers         SWBAT identify, graph, and perform operations with complex numbers         SWBAT adid and subtract radical expressions, and simplify them         SWBAT adid and subtract radical expressions         SWBAT identify numbers and expressions with complex numbers         SWBAT identify numbers and expressions         SWBAT identify numbers and e	F 501 F 508, F 509 A 505 F 501 F 501 N 504, N 606, N 704 A 401 A 401 A 402, A 401 A 402, A 402, A 402, A 402 A 602, N 602, A 512 G 704 N 703 A 509 N 504, N 606, N 704 N 504, N 606, N 704 N 509 N 504, N	4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37 19 48 48 26		5-3 5-4 5-5 5-5 5-5 5-8 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3
Unit 5: Polynomials and	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial equations (find the real roots) by graphing         SWBAT solve equations using the Rational Root Theorem         SWBAT solve equations using the Rational Root Theorem         SWBAT to be Descartes Rule of Signs to find the real roots         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT fit scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator         SWBAT apply transformations to graphs of polynomials and find their zeros         Spiraled Objectives         SWBAT follow order of operations using parentheses and exponents         SWBAT solve for a variable in terms of the other variable         SWBAT identify the quadrants of the coordinate plane.         SWBAT identify the quadrants of the coordinate plane.         SWBAT identify, graph, and perform operations with complex numbers         SWBAT identify, graph, and perform operations with complex numbers         SWBAT identify, graph, and perform operations with complex numbers         SWBAT identify and divide radical expressions, and simplify them         SWBAT isonplify numbers and exponents         SWBAT identify part, graph, and perform operations with complex numbers         SWBAT identify part divide radical expressions, and simplify them         SWBAT add and subtrat radical expressions, and simplify them	F 501 F 508, F 509 A 505 F 501 F 501 N 504, N 606, N 704 A 401 A 401 A 401 A 402, A 303 A 502, A 402 A 402 A 402 A 502, A 402 A 502, N 504, N 606, N 704 N 504, N 606, N 704 N 504, N 605 N 505 F 702	4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37 19 48 48 26	9, 15, 25	5-3 5-3 5-4 5-5 5-5 5-5 5-8 5-8 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9
Unit 5: Polynomials and	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial equations (find the real roots) by graphing         SWBAT solve equations using the Rational Root Theorem         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT fit scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator         SWBAT add, subtract, multiply, and divide rational numbers         SWBAT follow order of operations using parentheses and exponents         SWBAT combine like terms using basic operations.         SWBAT combine like terms using basic operations.         SWBAT solve for a variable in terms of the other variable         SWBAT identify the quadrants of the coordinate plane.         SWBAT identify the quadrants of the coordinate plane.         SWBAT define and identify complex numbers         SWBAT identify, graph, and perform operations with complex numbers         SWBAT add a subtract radical expressions         SWBAT add and subtract radical expressions with complex numbers         SWBAT add and subtract radical expressions subtract forms         SWBAT identify complex numbers         SWBAT add and subtract radical expressions subtract and lexponents </td <td>F 501 F 508, F 509 A 505 F 501 F 501 N 504, N 606, N 704 A 401 A 401 A 401 A 402, A 303 A F 501 A 402, A 303 A F 502, A 402 A 402, A 303 A F 502, A 402 N 703 A 509 N 504, N 606, N 704 N 504, N 606, N 704 A 509 N 504, N 605 F 702 A 509</td> <td>4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37 19 48 48 26</td> <td>9, 15, 25</td> <td>5-3 5-4 5-5 5-5 5-5 5-8 5-8 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>3 3 3 3 3 3 3 3 3 3 3 3 3 3</td>	F 501 F 508, F 509 A 505 F 501 F 501 N 504, N 606, N 704 A 401 A 401 A 401 A 402, A 303 A F 501 A 402, A 303 A F 502, A 402 A 402, A 303 A F 502, A 402 N 703 A 509 N 504, N 606, N 704 N 504, N 606, N 704 A 509 N 504, N 605 F 702 A 509	4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37 19 48 48 26	9, 15, 25	5-3 5-4 5-5 5-5 5-5 5-8 5-8 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3
Unit 5: Polynomials and	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial susing long division         SWBAT solve equations using the Rational Root Theorem         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT fit scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator         SWBAT apply transformations to graphs of polynomials and find their zeros         Spiraled Objectives         SWBAT follow order of operations using parentheses and exponents         SWBAT combine like terms using basic operations.         SWBAT combine like terms using basic operations.         SWBAT solve for a variable in terms of the other variable         SWBAT identify the quadrants of the coordinate plane.         SWBAT identify complex numbers         SWBAT define and identify complex numbers         SWBAT add and subtract radical expressions, and simplify them         SWBAT add and subtract radical expressions, and simplify them         SWBAT add and subtract radical expressions, and simplify them         SWBAT add and subtract radical expressions with complex numbers         SWBAT aph, a	F 501 F 508, F 509 A 505 F 501 F 501 N 504, N 606, N 704 A 401 A 401 A 401 A 402, A 303 A 502, A 402 A 402 A 402 A 502, A 402 A 502, N 504, N 606, N 704 N 504, N 606, N 704 N 504, N 605 N 505 F 702	4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37 19 48 48 26	9, 15, 25	5-3 5-4 5-5 5-5 5-5 5-8 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5
and	SWBAT solve polynomial equations by factoring         SWBAT solve polynomial equations (find the real roots) by graphing         SWBAT solve equations using the Rational Root Theorem         SWBAT find all zeros of a polynomial function using a graphing calculator         SWBAT fit scatterplot data from word problems to linear, quadratic, cubic, or quartic linear regression in a graphing calculator         SWBAT add, subtract, multiply, and divide rational numbers         SWBAT follow order of operations using parentheses and exponents         SWBAT combine like terms using basic operations.         SWBAT combine like terms using basic operations.         SWBAT solve for a variable in terms of the other variable         SWBAT identify the quadrants of the coordinate plane.         SWBAT identify the quadrants of the coordinate plane.         SWBAT define and identify complex numbers         SWBAT identify, graph, and perform operations with complex numbers         SWBAT add a subtract radical expressions         SWBAT add and subtract radical expressions with complex numbers         SWBAT add and subtract radical expressions subtract radical expressions         SWBAT add and subtract radical expressions with complex numbers         SWBAT add and subtract radical	F 501 F 508, F 509 A 505 F 501 F 501 N 504, N 606, N 704 A 401 A 401 A 402, A 303 A F 501 A 402, A 303 A F 502, A 402 A 402, A 303 A F 502, A 402 N 703 A 509 N 504, N 606, N 704 N 504, N 606, N 704 N 504, N 606, N 704 S 509 N 504, N 605 F 702 A 509	4, 8, 15 2, 3, 7, 20, 24, 27, 47 30, 41, 31 23, 37 19 48 48 26	9, 15, 25	5-3 5-4 5-5 5-5 5-5 5-8 5-8 5-9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 4 5 5 5 5 6 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8

d Rati	SWBAT add, subtract, multiply, and divide radical functions	F 708	26			6-6
		F 708	32			6-6
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Unit 6: Radical Functions and	SWBAT write the inverse of an equation	F 602				6-7
Ğ	SWBAT recognize that radical and rational functions are inverse					6-7
E	SWBAT compose the inverse of a function	F 602				6-7
a	SWBAT graph a square root function		48			6-8
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22		AF 706				6-8
ite	SWBAT solve a radical equation by graphing					6-8
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	SWBAT apply properties of rational exponents SWBAT isolate a variable using inverse operations	N 605 AF 602		54		
	Swort isolate a variable using inverse operations	A 402,		54		
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		AF 602, N				
	SWBAT evaluate functions, given input values.	602, A 512	30, 41, 31			
	SWBAT identify the quadrants of the coordinate plane.	G 704	23, 37			
	SWBAT identify properties of real numbers	N 703				
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		AF 604				8-2
	SWBAT graph a translation of a rational function by drawing asymptotes and identify it's domain and range. Write the equation					
		F 508				8-2
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	SWBAT find points of discontinuity	5540 5				8-3
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	Switch model a rational function in a graphing calculator	F 702	19, 20, 26,			0-2
ati	SWBAT simplify a rational expression with a numerator and denominator	N 605	45		48	8-4
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-	SWBAT multiply and divide rational expressions	N 605	45		48	8-4
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	SWBAT create rational expressions from a word problem to find a solution	N 605	45		48	8-4
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	SWBAT find the LCM of two rational expressions. SWBAT add and subtract rational expressions with different denominators	605	45	19	48	8-5
	SWBAT simplify a complex fraction by multiplying both numerator and denominator by the LCD of all the rational expressions					
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		F 508	44			8-6
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achaeirea	SWBAT find the sum of a finite arithmetic series and apply to word problems SWBAT write a series in summation notation					
ווור שי שבקשבוורבש	SWBAT find the sum of a finite arithmetic series and apply to word problems SWBAT write a series in summation notation SWBAT find the sum of a series written in summation notation	F 502				9-4
ווור שי שבקשבוורבש	SWBAT find the sum of a finite arithmetic series and apply to word problems SWBAT write a series in summation notation SWBAT find the sum of a series written in summation notation SWBAT use a graphing calculator to find the sum of a series	F 502 F 502				9-4 9-4
ווור שי שבקשבוורבש	SWBAT find the sum of a finite arithmetic series and apply to word problems SWBAT write a series in summation notation SWBAT find the sum of a series written in summation notation SWBAT use a graphing calculator to find the sum of a series SWBAT find the sums of finite geometric series	F 502 F 502 F 703	60		7	9-4 9-4 9-5
ווור שי שבקשבוורבש	SWBAT find the sum of a finite arithmetic series and apply to word problems SWBAT write a series in summation notation SWBAT find the sum of a series written in summation notation SWBAT use a graphing calculator to find the sum of a series SWBAT find the sums of finite geometric series SWBAT use the geometric series formula to solve real-world problems	F 502 F 502 F 703 F 703	60		7	9-4 9-4 9-5 9-5
ווור שי שבקשבוורבש	SWBAT find the sum of a finite arithmetic series and apply to word problems         SWBAT write a series in summation notation         SWBAT find the sum of a series written in summation notation         SWBAT use a graphing calculator to find the sum of a series         SWBAT find the sums of finite geometric series         SWBAT use the geometric series formula to solve real-world problems         SWBAT determine if an infinite geometric series converges or diverges	F 502 F 502 F 703 F 703 F 703	60 60 60		7	9-4 9-4 9-5 9-5 9-5
ווור שי שבקשבוורבש	SWBAT find the sum of a finite arithmetic series and apply to word problems         SWBAT write a series in summation notation         SWBAT find the sum of a series written in summation notation         SWBAT use a graphing calculator to find the sum of a series         SWBAT find the sums of finite geometric series         SWBAT use the geometric series formula to solve real-world problems         SWBAT determine if an infinite geometric series converges or diverges         SWBAT graph an exponential function by hand	F 502 F 502 F 703 F 703 F 703 F 703 F 702	60 60 60 30, 57		7777777	9-4 9-4 9-5 9-5 9-5 7-1
	SWBAT find the sum of a finite arithmetic series and apply to word problems         SWBAT write a series in summation notation         SWBAT find the sum of a series written in summation notation         SWBAT use a graphing calculator to find the sum of a series         SWBAT find the sums of finite geometric series         SWBAT suse the geometric series formula to solve real-world problems         SWBAT determine if an infinite geometric series converges or diverges         SWBAT graph an exponential function by hand         SWBAT identify exponential growth and decay and determine the y-intercept	F 502 F 502 F 703 F 703 F 703 F 703 F 702 F 702	60 60 60 30, 57 30, 57	19	7 7 7 4, 5, 24	9-4 9-5 9-5 9-5 7-1 7-1
	SWBAT find the sum of a finite arithmetic series and apply to word problems         SWBAT write a series in summation notation         SWBAT find the sum of a series written in summation notation         SWBAT use a graphing calculator to find the sum of a series         SWBAT use the geometric series formula to solve real-world problems         SWBAT use the geometric series formula to solve real-world problems         SWBAT determine if an infinite geometric series converges or diverges         SWBAT graph an exponential function by hand         SWBAT model and apply exponential growth in real-world situations	F 502 F 502 F 703 F 703 F 703 F 703 F 702 F 702 F 702 F 702	60 60 60 30, 57	19 19, 54	7 7 7 4, 5, 24 4, 5, 24	9-4 9-5 9-5 9-5 7-1 7-1 7-1
	SWBAT find the sum of a finite arithmetic series and apply to word problems         SWBAT write a series in summation notation         SWBAT find the sum of a series written in summation notation         SWBAT find the sum of a cloulator to find the sum of a series         SWBAT ind the sums of finite geometric series         SWBAT use the geometric series formula to solve real-world problems         SWBAT graph an exponential function by hand         SWBAT identify exponential growth in real-world situations         SWBAT describe and graph transformations of y = ab^x, where a is transformed	F 502 F 502 F 703 F 703 F 703 F 703 F 702 F 702 F 702 F 702 AF 604	60 60 60 30, 57 30, 57	19	7 7 7 4, 5, 24 4, 5, 24 4, 5, 24 22	9-4 9-5 9-5 9-5 7-1 7-1 7-1 7-2
ווור שי שבקשבוורבש	SWBAT find the sum of a finite arithmetic series and apply to word problems         SWBAT write a series in summation notation         SWBAT find the sum of a series written in summation notation         SWBAT find the sum of a series written in summation notation         SWBAT find the sum of a series written in summation notation         SWBAT find the sums of finite geometric series         SWBAT use the geometric series formula to solve real-world problems         SWBAT determine if an infinite geometric series converges or diverges         SWBAT graph an exponential function by hand         SWBAT identify exponential growth and decay and determine the y-intercept         SWBAT model and apply exponential growth in real-world situations         SWBAT describe and graph transformations of y = ab^x, where a is transformed         SWBAT describe and graph transformations of y = b^x, where x is transformed	F 502 F 502 F 703 F 703 F 703 F 703 F 702 F 702 F 702 F 702 AF 604 AF 604	60 60 60 30, 57 30, 57 30, 57	19 19, 54 19	7 7 7 4, 5, 24 4, 5, 24 4, 5, 24 22	9-4 9-5 9-5 9-5 7-1 7-1 7-1 7-2 7-2
uir a. aequeirces	SWBAT find the sum of a finite arithmetic series and apply to word problems         SWBAT write a series in summation notation         SWBAT find the sum of a series written in summation notation         SWBAT use a graphing calculator to find the sum of a series         SWBAT ind the sums of finite geometric series         SWBAT use the geometric series formula to solve real-world problems         SWBAT use the geometric series formula to solve real-world problems         SWBAT graph an exponential function by hand         SWBAT identify exponential growth and decay and determine the y-intercept         SWBAT model and apply exponential growth in real-world situations         SWBAT describe and graph transformations of $y = ab^x$ , where a is transformed         SWBAT use exponential regression in a graphing calculator to model real world data	F 502 F 502 F 703 F 703 F 703 F 703 F 702 F 702 F 702 F 702 AF 604	60 60 60 30, 57 30, 57	19 19, 54 19	7 7 7 4, 5, 24 4, 5, 24 4, 5, 24 22	9-4 9-5 9-5 9-5 7-1 7-1 7-1 7-1 7-2
uir a: sedneuces	SWBAT find the sum of a finite arithmetic series and apply to word problems         SWBAT write a series in summation notation         SWBAT find the sum of a series written in summation notation         SWBAT use a graphing calculator to find the sum of a series         SWBAT find the sums of finite geometric series         SWBAT use the geometric series formula to solve real-world problems         SWBAT determine if an infinite geometric series or diverges         SWBAT graph an exponential function by hand         SWBAT model and apply exponential growth in real-world situations         SWBAT describe and graph transformations of $y = ab^{h}x$ , where a is transformed         SWBAT describe and graph transformations of $y = ab^{h}x$ , where a is transformed         SWBAT use exponential regression in a graphing calculator to model real world data         SWBAT evaluate and graph e^hx in a graphing calculator	F 502 F 502 F 703 F 703 F 703 F 702 F 702 F 702 AF 604 AF 604 F 702	60 60 60 30, 57 30, 57 30, 57 30, 57 30, 57	19 19, 54 19	7 7 7 4, 5, 24 4, 5, 24 22 22	9-4 9-5 9-5 9-5 7-1 7-1 7-1 7-1 7-2 7-2 7-2
uir a: sedneuces	SWBAT find the sum of a finite arithmetic series and apply to word problems         SWBAT write a series in summation notation         SWBAT find the sum of a series written in summation notation         SWBAT find the sum of a series written in summation notation         SWBAT find the sums of finite geometric series         SWBAT use the geometric series formula to solve real-world problems         SWBAT graph an exponential function by hand         SWBAT identify exponential growth and decay and determine the y-intercept         SWBAT describe and graph transformations of y = ab^x, where a is transformed         SWBAT use exponential regression in a graphing calculator to model real world data         SWBAT use valuate and graph e^x in a graphing calculator         SWBAT use vord problems involving continuously compounded interest	F 502 F 502 F 703 F 703 F 703 F 702 F 702 F 702 F 702 AF 604 AF 604 F 702 F 702 F 702	60 60 30, 57 30, 57 30, 57 30, 57 30, 57 30, 57 30 30 30	19 19, 54 19	7 7 7 4, 5, 24 4, 5, 24 22 22	9-4 9-5 9-5 9-5 7-1 7-1 7-1 7-2 7-2 7-2 7-2

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7:1	SWBAT expand logarithms by applying the properties of logarithms	F 707				7-4
nit	SWBAT evaluate the value of a logarithm expression using the change of base formula	F 707				7-4
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