	Submit comments on the draft NYS Algebra II Mathematics Learning Standards						
	NYSAlgebrall MathematicsLearning Standards						
	Number and Quantity						
			The Real Nu	umber System (RN)			
		Standard Code	Current Standard	RevisedStandard Recommendation for 20189	Additional Information/Notes		
Cluster	A. Extend the properties of exponents to rational exponents.	N-RNA.1	Explain how the definition of the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents. For example, we define the cube robot 5 because we want $(5)^3 = 5^{(1/3)3}$ to hold, so $5^{(1/3)3}$ must equal 5. Rewrite expressions involving radicals and rational exponents using the pr96 -(ng 162.)-612di 3E7.4	Explorehow the meaning of rational exponents follows from extending the properties of integer exponents. Tm [(e)9(x)4.3M8(p)9(ne)9(nt)2.68s(o)48 (ng)6.1(.)462.8	94 344925 1 scn 85.8 183.72 7Tm		

NYSAlgebra II Mathematics

NYSAlgebra II Mathematics_earning Standards

Algebra Seeing Structure in Expressions-\$\$E)

Standard Code

Submit comments on the draft NYS Algebra II Mathematics Learning Standards

		A-SSE.B.4	4. Derive the formula for the sum of a finite geometric series (when the common ratio is no 1), and use the formula to solve problems. For example, calculate mortgage payments. NYSE Includesusing summation notation.	MOVESTANDARIDO FUNCTIONS CLUSTIERB.7	Remove from Expressions Cluster and move to Building Functions cluster (new label: FBFB.7)
--	--	-----------	---	--------------------------------------	---

NYSAlgebral

	Submit comments on the draft NYS Algebra II Mathematics Learning Standards							
	NYSAIgebrall Mathematics Learning Standards							
			Α	Algebra				
			Reasoning with Equa	ations and Inequalities-REI)				
		Code	CurrentStandard	RevisedStandard Recommendation for 20189	Additional Information/Notes			
Cluster	B. Solve equations and inequalities in one variable.	A-REI.B.4	4. Solve quadratic equations in one variable. (Shared with A1)	NO CHANGE				

Submit comments on the draft NYS Al	gebra II Mathematics Learning Standards

	NYSAIgebrall Mathematics Learning Standards					
	Algebra					
			Reasoning with Equa	ations and Inequalities-REI)		
Standard Code Current Standard RevisedStandard Recommendation for 20189 Addition					Additional Information/Notes	
Cluster	D.Represent and solve equations andnequalities graphically.	A-REI.D.1	11. Explain why the-coordinates of the points where the graphs of the equations $y=f(x)$ and y=g(x) intersect are the solutions of the equation $f(x)=g(x)$; find the solutions approximately, e.g., using technology tagh the functions, make tables of values, or find successive approximations. Include cases wh f(x) and/or $g(x)$ are linear, polynomial, rational absolute value, exponential, and logarithmic functions. (Shared with A1). PARCC: i) Tasks involve any ofhe function types mentioned in the standard. \hat{u}	11. Given the equations $y=f(x)$ and $y=g(x)$: i) recogn that each <i>x</i> coordinate of the intersection(s) is the solution to the equation $f(x)=g(x)$; and ii) find the solutions approximately using technology trag the functions or make tables of values; and iii) interpret the solution in context. \hat{u} Note for Algebra II: Include cases where $f(x)$ and/or g(x) are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.		

Page 15

NYSAlgebrall Mathematics Learning Standards

	Submit comments on the draft NYS Algebra II Mathematics Learning Standards					
			NYSAlgebra I Mathe	ematicsLearning Standards		
			F Interpretin	unctions g Functions (II F)		
Standard Code Current Standard RevisedStandard Recommendation for 20189 Additional Inf				Additional Information/Notes		
	ferent	FIF.C.8	8. Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.	8. Write a function in different but equivalent forms t reveal and explain different properties of the functio	n.	
Cluster	e functions using dif tations.	F-IF.C.89	8b. Use the properties of exponents to interpresent expressions for exponential functions. For example, identify percent rate of change in functions such as $y = (1.02) = (0.97) y = (1.01)^{12t}$, $y = (1.21)^{10}$, and classify them as representing exponential growth or decay. NYSED: Includes A = Part A = P(1+(r/n)))	8b. Use the properties of exponents to interpret exponential functions and classify them as representing exponential growth or decay. Include real world problems involving compound and continuous interest.		
	C.Analyz represen	F-IF.C.9	9. Compare properties of two functions each represented in a different way (alge			

Submit comments on the draft NYS Algebra II Mathematics Learning Standards

	F-BFB.6	NEW STANDARD	6a. Convert between the expanded form of a series	
			and summation notation for the series and evaluate	
			6b. Write arithmetic and geometric series in	
			summation notation.	
	F-BFB.7	USED TO BESASE. BA	Explore the derivation of the formulas for	
			arithmetic and finite geometric series. Use the serie	6
			to solve problems. For example, calculate mortgage	
			payments. û	



Submit comments on the draft NYS Algebra II Mathematics Learning Standards						
NYSAlgebra II Mathematics						
Functions						
Trigonometric Functions (fFF)						
Standard CurrentStandard RevisedStandard Recommendation for 20189 Additional Information	n/Notes					
FTF.A.1 1. Understand radian measure of an angle as the length of the acr on the unit circle subtended by the angle. NO CHANGE regent are regent ar						

	Submit comments on the draft NYS Algebra II Mathematics Learning Standards					
	NYSAlgebra II Mathematics					
			G	eometry		
			Expressing Geometric I	Properties with Equations (UPE)	I	
	Standard Current Standard RevisedStandard Recommendation for 20189 Additional Information/Not					
Cluster	A. Translate between the geometric description and the equation for a conic section.	G-GPE.A.2	2. Derive the equation of a parabola given a focus and directrix.	REMOVE STANDARD PLUS STANDARDS	The committee feelshat this standardis not appropriate for this course ties better with the study of conics in higher level math courses.	

	NYSAlgebra I MathematicsLearning Standards				
Statistics and Probabilityû					
		Interpreting categorica	l and quantitative data (BD) û		
	Standard Code	Current Standard			

	Submit comments on the draft NYS Algebra II Mathematics Learning Standards						
	NYSAlgebra II MathematicsLearning Standards						
			Statistics a	and Probabilityû			
			Making Inferences and	I Justifying Conclusiond ((\$)û			
		Standard Code	Current Standard	RevisedStandard Recommendation for 20189	Additional Information/Notes		
Cluster	evaluate random processes underlying ments.	SIC.A.1	1. Understand statistics as a process for making the state of the stat				
	A. Understand and e statistical experim						

Submit comments on the draft NYS Algebra II Mathematics Learning Standards

		¥	
S-CP.A.5	Recognize and explain the concepts of	REMOVISTANDARDCOMBINED WITH OTHER	
	conditionalprobability and independence in	STANDARDIS CLUSTER FOR CLARI	
	everyday language and everyday situations. F		
	example, compare the chance of having lung		
	cancer if you are a smoker with the chance of		
	being a smoker if you have lung cancer.		
	5 , 5		

û

Page 34