NYSAlgebrall Mathematics Learning Standards							
	Number and Quantity  The Real Number 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 to be the cube robof 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 ration 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	34 344925 1 scn 85.8 183.72 7Tm			

# NYSAlgebra II Mathematics

#### NYSAlgebra II MathematicsLearning Standards

Algebra
Seeing Structure in Expressions-\$5E)

Standard Code

geometric series (when the common ratio is not 1), and use the formula to solve problems. For example, calculate mortgage payments. NYSE Includesusing summation notation.  Cluster and move to Building Functions (new label: FBFB.7)
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# **NYS**Algebral

## NYSAlgebrall Mathematics Learning Standards Algebra

	Reasoning with Equations and Inequalities-REI)					
		Standard Code	CurrentStandard	RevisedStandard Recommendation for 20189	Additional Information/Notes	
if	one variable.	A-REI.B.4	4. Solve quadratic equations in one variable. (Shared with A1)	NO CHANGE		
Cluster	Solve equations and inequalities in one variable.	A-REI.B.4b				

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

# NYSAlgebrall Mathematics Learning Standards

	NYSAlgebra I Mathematics Learning Standards						
	Functions Interpreting Functions (#F)						
		Standard Code	Current Standard	RevisedStandard Recommendation for 20189	Additional Information/Notes		
	ferent	F-IF.C.8	Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.	Write a function in different but equivalent forms to reveal and explain different properties of the function	n.		
Cluster	C.Analyze functions using different representations.	F-IF.C.8b	8b. Use the properties of exponents to interpresent expressions for exponential functions. For example, identify percent rate of change in functions such as $y = (1.02) = (0.97) y = (1.01)^{12t}$ , $y = (1.2)^{10}$ , and classify them as representing exponential growth or decay. NYSED: Includes $A^{\text{T}}$ Rand $A = P(1 + (r/n))$	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.Analyze funct representations.	F-IF.C.9	9. Compare properties of two functions each represented in a different way (alge				

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 BESSE.B	7. Explore the derivation of the formulas for arithmetic and finite geometric series. Use the series to solve problems. For example, calculate mortgage payments. û	3

# NYSAlgebra I MathematicsLearning Standards Functions Linear, Quadratic and Exponential Models (E) û Standard Code

	NYSAlgebra II Mathematics Learning Standards						
	Functions Trigonometric Functions (FF)						
		Standard Code	CurrentStandard	RevisedStandard Recommendation for 20189	Additional Information/Notes		
Cluster	A. Extend the domain of trigonometric functions using the unit circle.	F-TF.A.1	Understand radian measure of an angle as the length of the arc on the unit circle subtended by the angle.  In the length of the arc on the unit circle subtended by the angle.	NO CHANGE			

### NYSAlgebra II MathematicsLearning Standards Geometry Expressing Geometric Properties with Equations (CPE) Standard **Current Standard** RevisedStandard Recommendation for 20189 Additional Information/Notes Code G-GPE.A.2 2. Derive the equation of a parabola given a REMOVE STANDARD PLUS STANDARDS The committee feelshat this Translate between the geometric description and the equation for a focus and directrix. standardis not appropriate for this course ties better with the study of conics in higher level math courses. conic section. Cluster Ä.

#### NYSAlgebra I MathematicsLearning Standards

Statistics and Probabilityû

Interpreting categorical and quantitative data (5D) û

Standard Code

**Current Standard** 

Submit comments on the draft NYS Algebra II Mathematics Learning Standards							
	NYSAlgebra II MathematicsLearning Standards						
	Statistics and Probabilityû						
		0	Making Inferences and	d Justifying Conclusiond(\$û			
		Standard Code	Current Standard	RevisedStandard Recommendation for 20189	Additional Information/Notes		
Cluster	Understand and evaluate random processes underlying statistical experiments.	SIC.A.1	1. Understand statistics as a process for making				
O	A. Understand and evalua statistical experiments.						

	S-CP.A.5	5. Recognize and explain the concepts of	REMOVISTANDARDCOMBINED WITH OTHER	
		conditionalprobability and independence in	STANDARDING CLUSTER FOR CEYARI	
		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.		