## High School—Algebra I (continued)

(4) In this area, students build o

## Algebra I

Number and Quentity					
	Number and Quantity				
The Real Number System (N-RN)					
Use properties of rational and irrational numbers					
N-RN.3	Explain why:  the sum or product of two rational numbers is rational;  the sum of a rational number and an irrational number is irrational; and  the product of a nonzero rational number and an irrational number is irrational.				

## Algebra I

	711900141			
A-REI.4	<ul> <li>Solve quadratic equations in one variable.</li> <li>a. Use the method of completing the square to transform any quadratic equation in <i>x</i> into an equation of the form (x - p)² = q that has the same solutions. Derive the quadratic formula from this form.</li> <li>b. Solve quadratic equations by inspection (e.g., for x² = 49), taking square roots, completing the square, the quadratic formula and factoring, as appropriate to the initial form of the equation. Recognize when the quadratic formula gives complex solutions.</li> </ul>			
Solve systems of equations				

Given a system of two equations in two variables, show and contains m

A-REI.5

fm eM