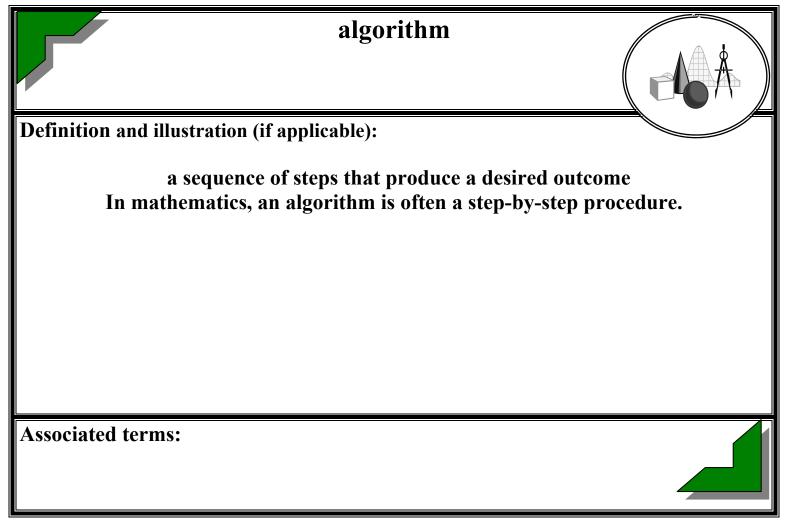
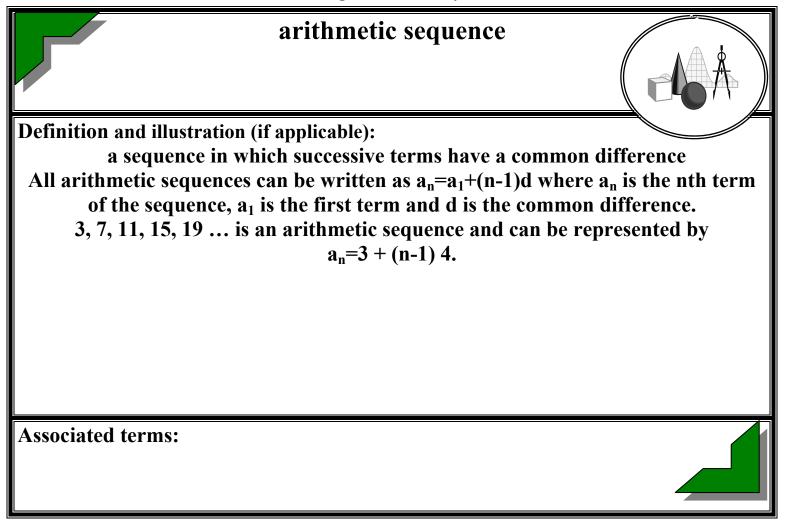
abscissa	
Definition and illustration (if applicable):	
the x-value of an ordered pair that describes the vertical distance from the It is always written as the first element in the ordered pair. 3 is the abscissa of the ordered pair (3, 5).	he x-axis.
Associated terms:	

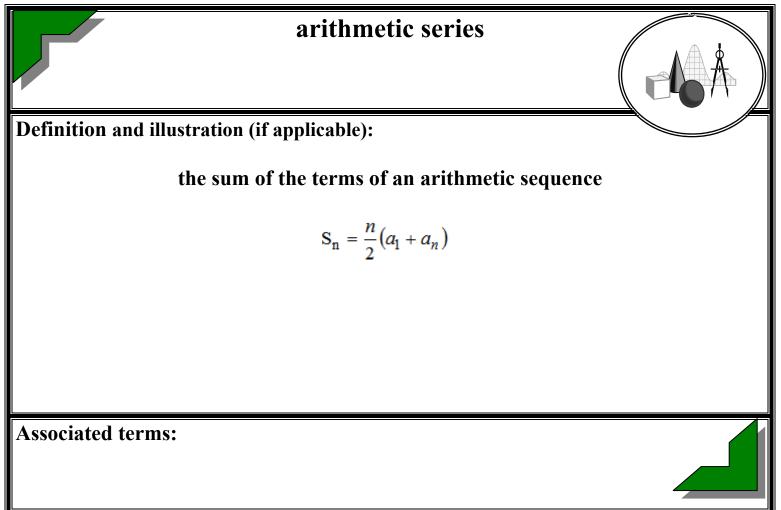
	absolute value	
Definition and illustration (i	f applicable):	
	eal number, x, is the distance	—
real number line. Becaus	se absolute value represents never less than zero.	distance, absolute value is
Associated terms:		

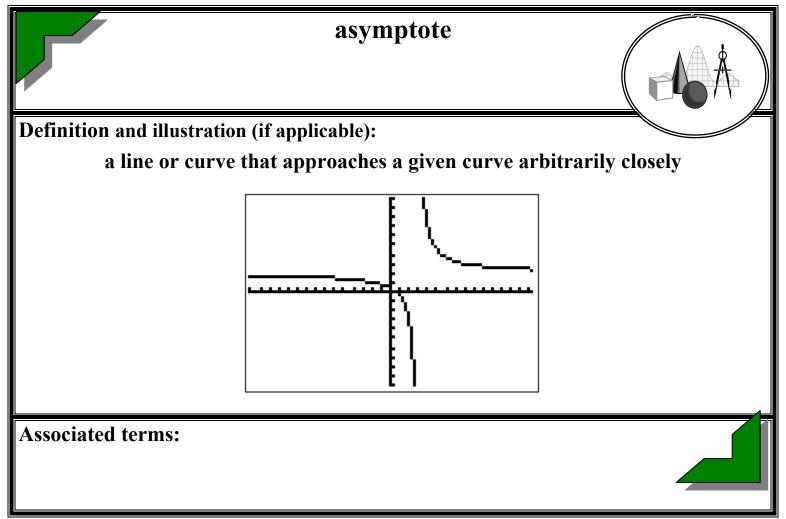


argument
Definition and illustration (if applicable):
numeric or algebraic input into an algorithm, n <sup>th</sup> function, or other defined
function
Associated terms:

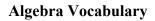


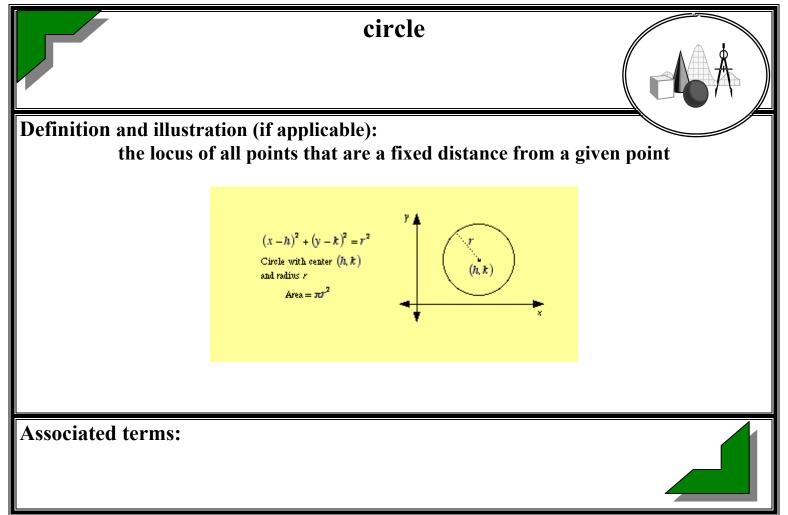




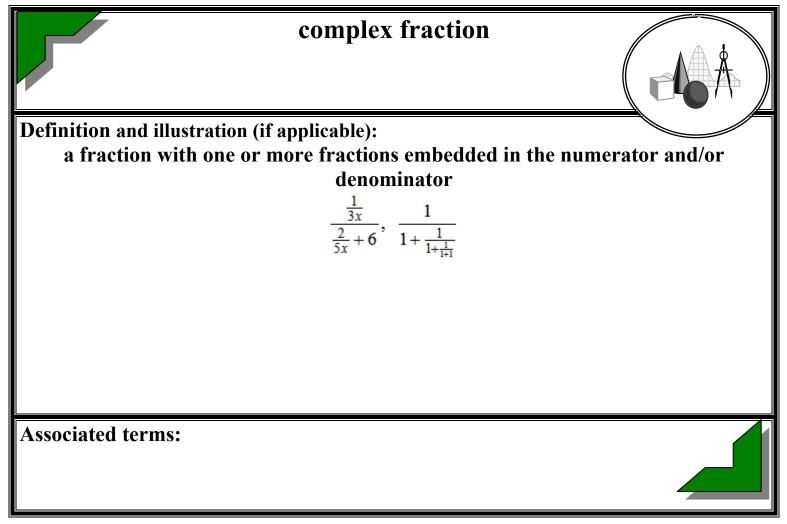


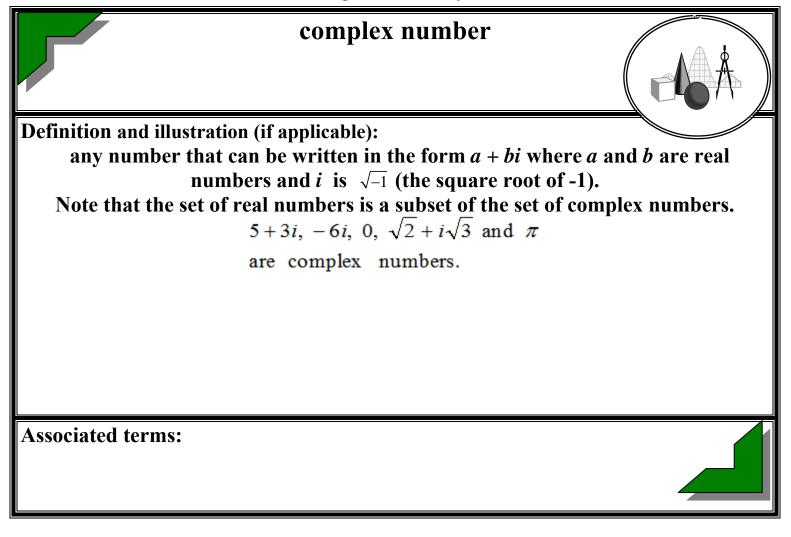
binary operation
Definition and illustration (if applicable): an action performed on two quantities Addition, subtraction, multiplication, division and exponentiation are binary operations.
Associated terms:





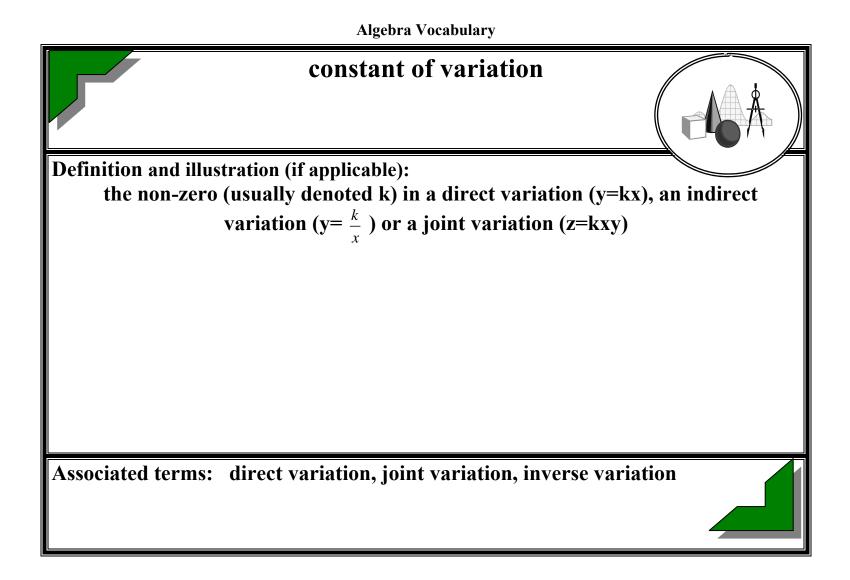
Closure Property	
Definition and illustration (if applicable):	
A set is said to be closed under some operation if the operation on members of th set produces a member of the set. A set that is closed under an operation or collection of operations is said to satisfy a closure property. For example, the re numbers are closed under subtraction, where the subset of natural numbers is not.	
Associated terms:	





composition of functions
Definition and illustration (if applicable):
combining two functions by taking the output of one and
using it as the input of another
If the output of g is used as the input of f, then the composition is referred to as "f
of g of x" and is denoted $f(g(x))$ or $f \circ g(x)$
Associated terms:

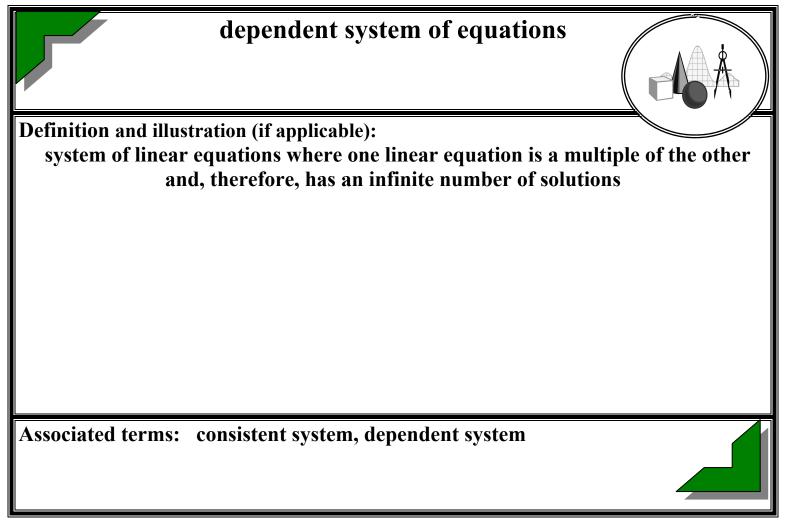
Algebra Vocabulary	
consistent system (of equations)	
Definition and illustration (if applicable):	
a system of equations that has at least one solution	
Associated terms: systems of equations	



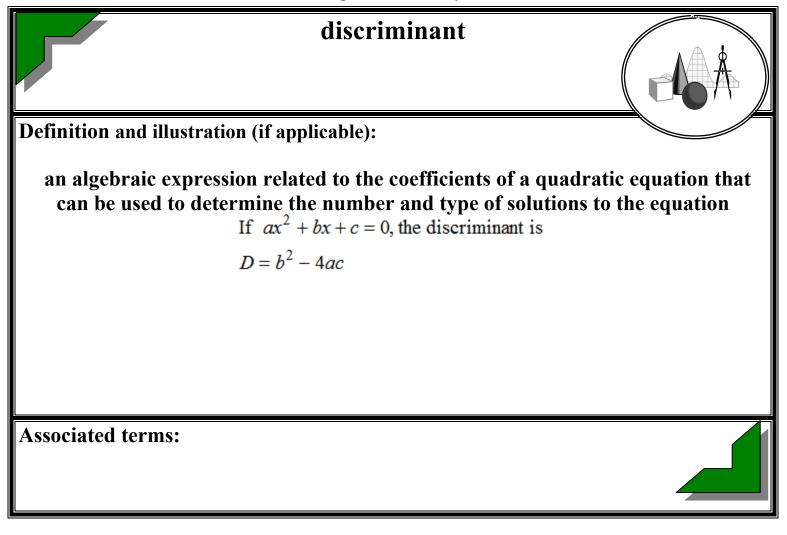
continuous function
Definition and illustration (if applicable):
A function f is continuous at a point (x, y) if it is defined at that point and passes through that point without a break.
Associated terms:

decreasing function
Definition and illustration (if applicable):
A function f is decreasing on an interval if and only if for every a and b in the interval, f(a) > f(b) whenever a < b.
Associated terms:

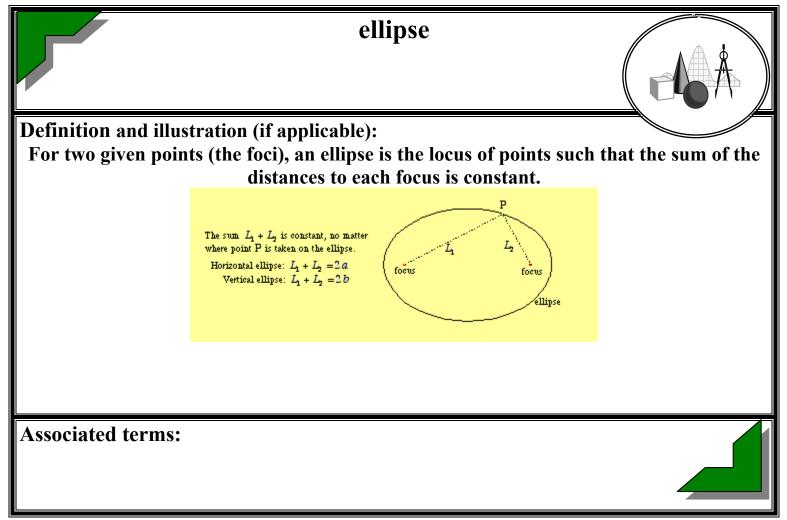
Algebra Vocabulary	
degree (of a polynomial)	
Definition and illustration (if applicable):	
the degree of the term with greatest sum of powers.	
Associated terms:	

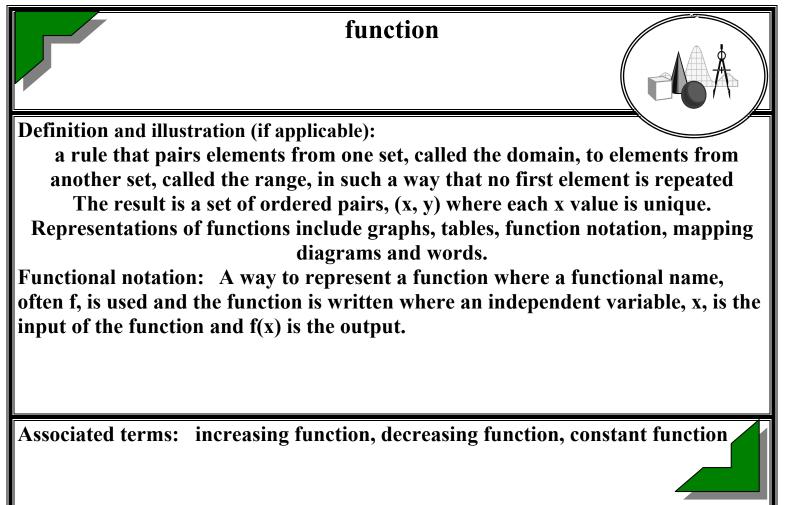


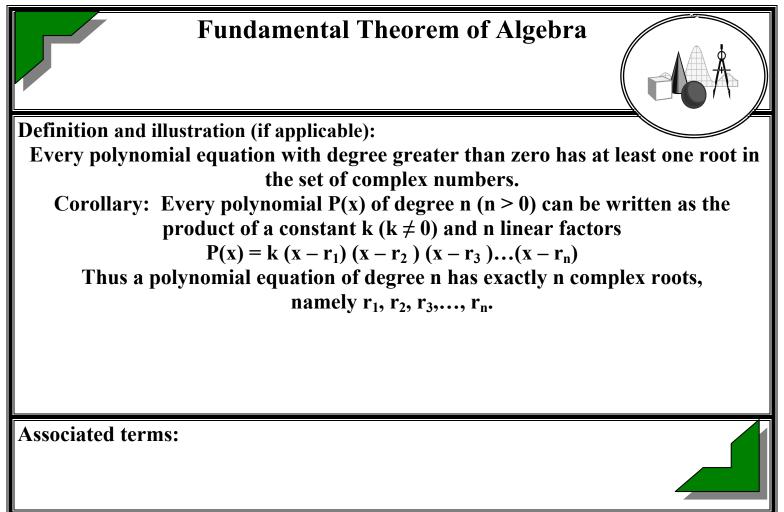
direct variation
Definition and illustration (if applicable):
a relationship between two variables, x and y, that can be expressed as y=kx
where k is the constant of variation
Associated terms: joint variation, constant of variation, inverse variation



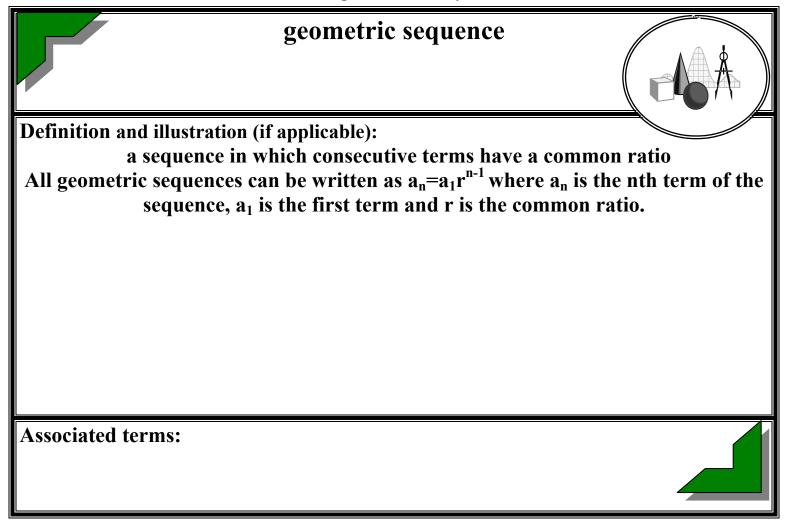
	domain	
Definition and illustration (if ap	plicable):	
the set of independent value		st elements in ordered
Associated terms:		

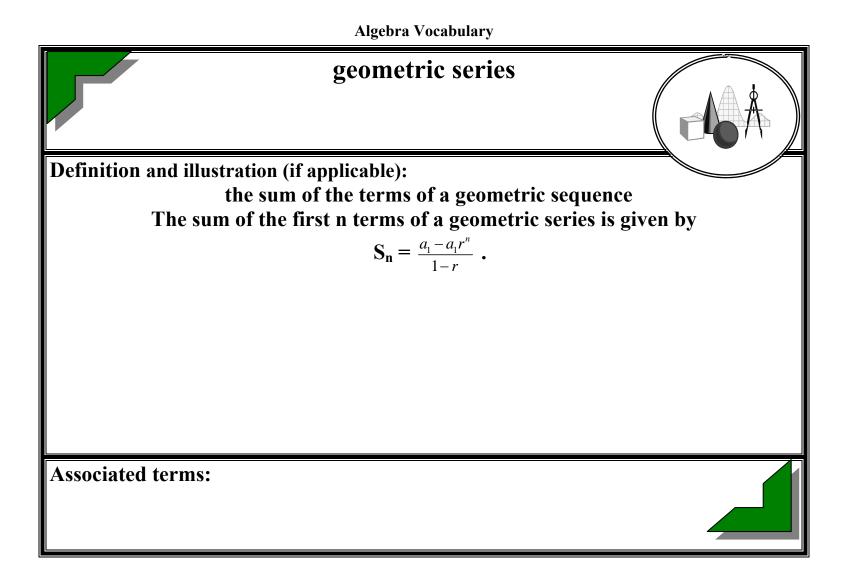


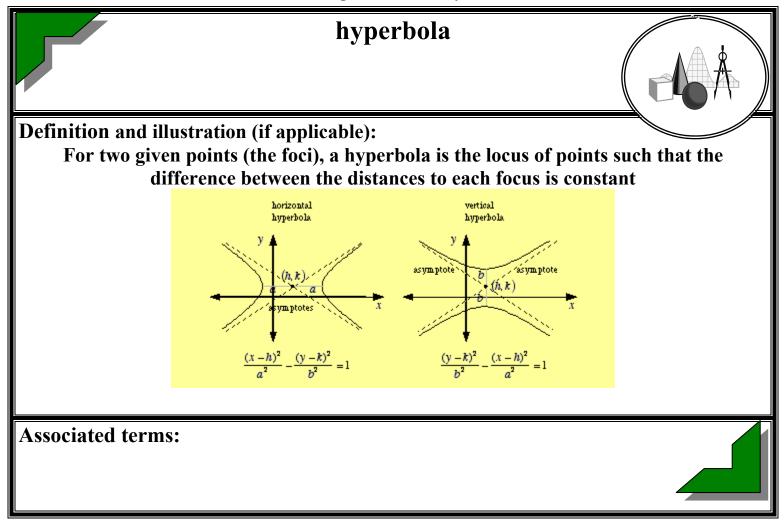




Fundamental Theorem of Arithmetic
Definition and illustration (if applicable):
In number theory, the Fundamental Theorem of Arithmetic (or unique
factorization theorem) states that every natural number greater than 1 can be written as a unique product of prime numbers.
Associated terms:





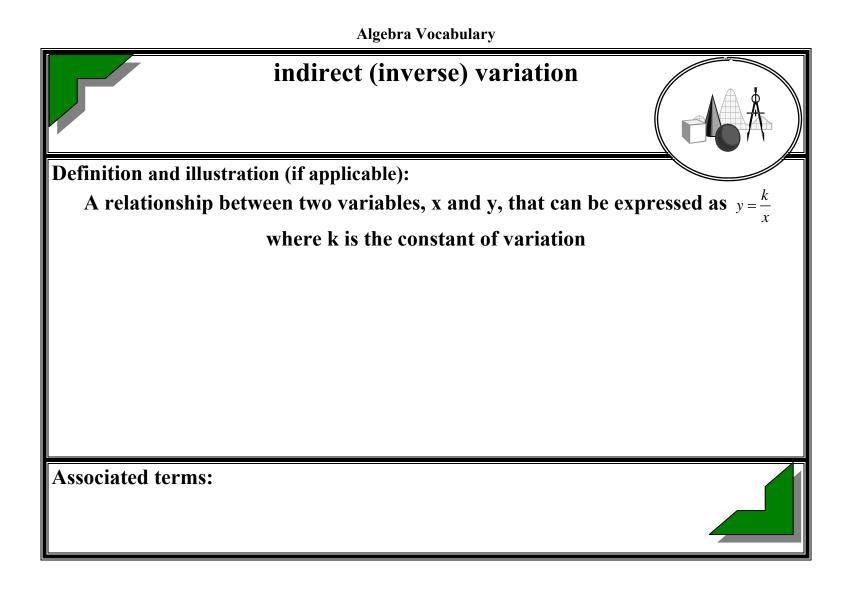


Algebra Vocabulary	
inconsistent system of equations	
Definition and illustration (if applicable):	
system of linear equations that has no solutions; parall	el lines
Associated terms:	

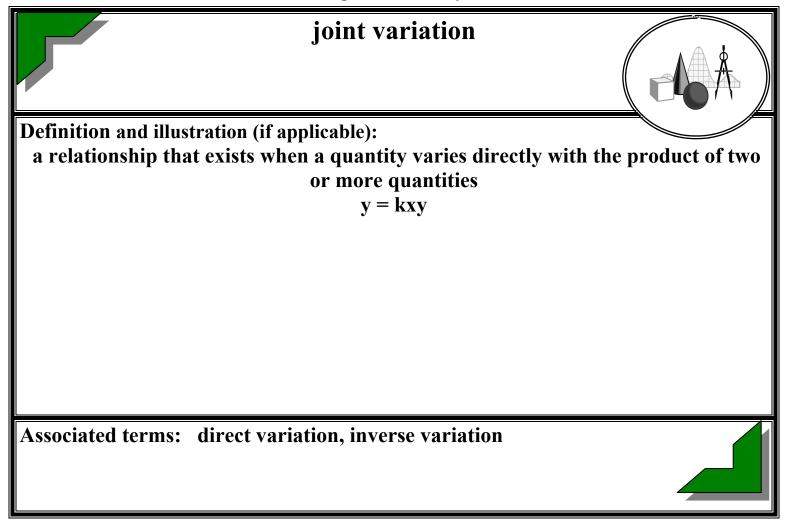
Algebra Vocabulary		
increasing function		
Definition and illustration (if applicable):		
A function f is increasing on an interval if and only if f(a) > f(b) for every a > b in the interval.		
Associated terms:		

**Algebra Vocabulary** independent system of equations **Definition** and illustration (if applicable): a consistent system of linear equations with only one solution Associated terms:

Algebra Vocabulary		
	index	
Definition and illustration (i	f applicable):	
numbe	r indicating what root is being taken	
	$\sqrt[4]{981}$ the index is 4.	
Associated terms:		



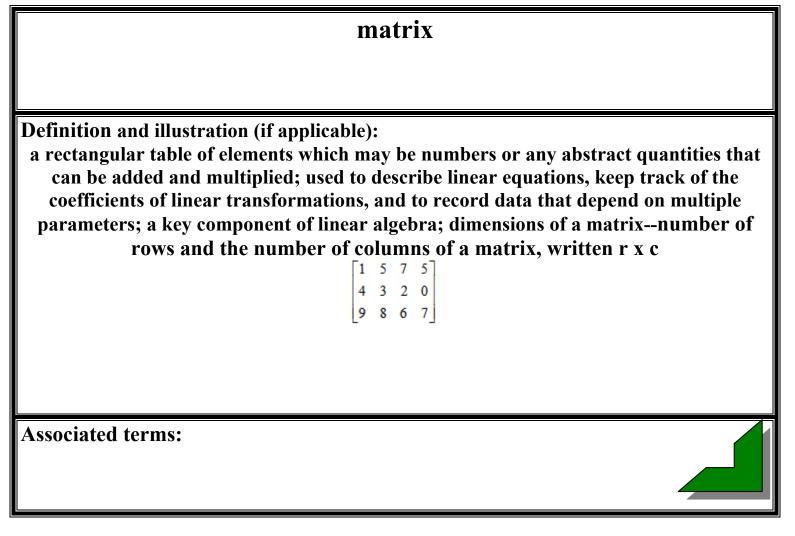
	Algebra Vocabulary	
	x-intercept y-intercept	
Definition and illu	stration (if applicable):	
	point where a curve crosses the x- or y-axis.	
Associated terms:		



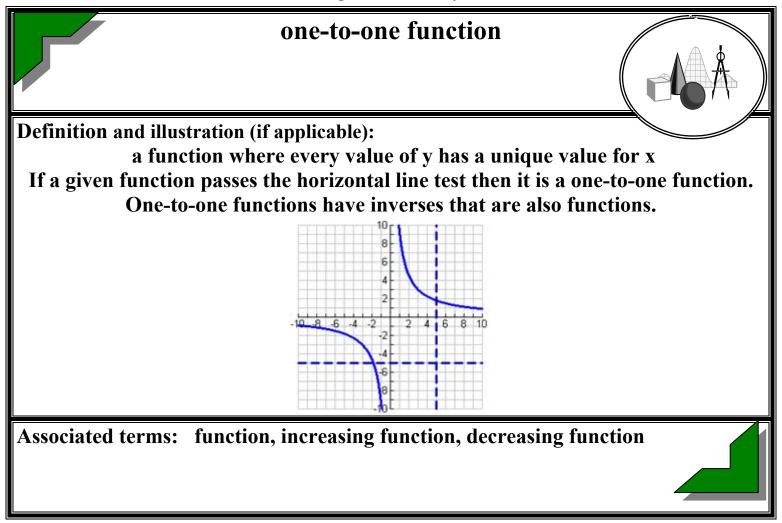
leading coefficient	
Definition and illustration (if applicable):	
In a polynomial function of degree n, the leading coefficient is $a_n$ and the leading term is $a_n x_n$	5
Associated terms:	

linear function	
Definition and illustration (if applicable):	
a function in the form <b>y</b> = mx+b where <b>m</b> and <b>b</b> are co	onstants
The graph of a linear function is a line.	
A linear equation has degree 1.	
Associated terms:	

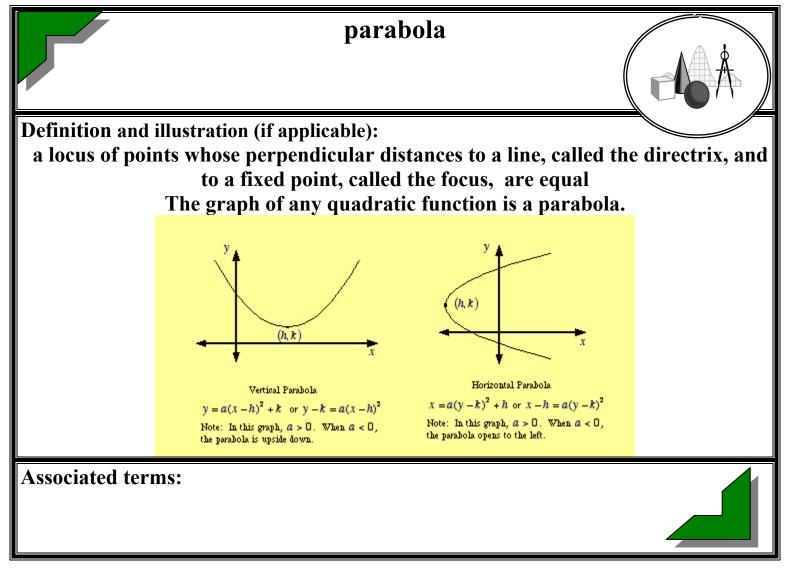
literal equations
Definition and illustration (if applicable):
an equation that contains more than one variable; an implicit equation; often mathematical formulae
Associated terms:

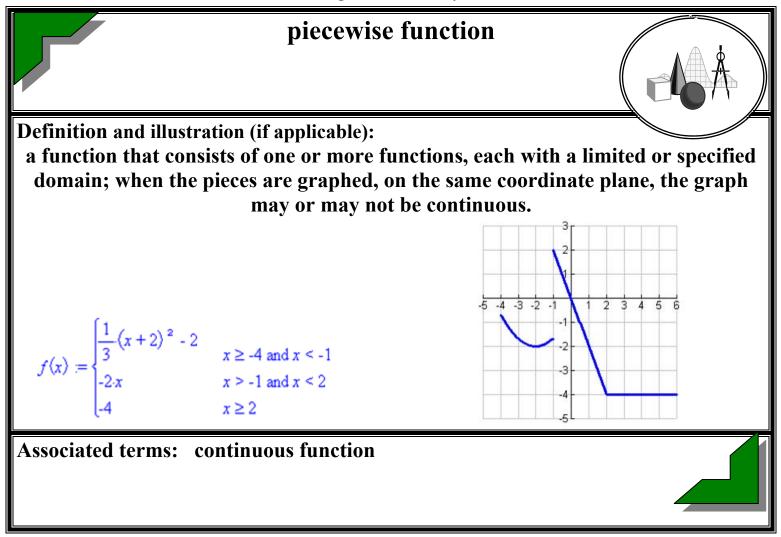


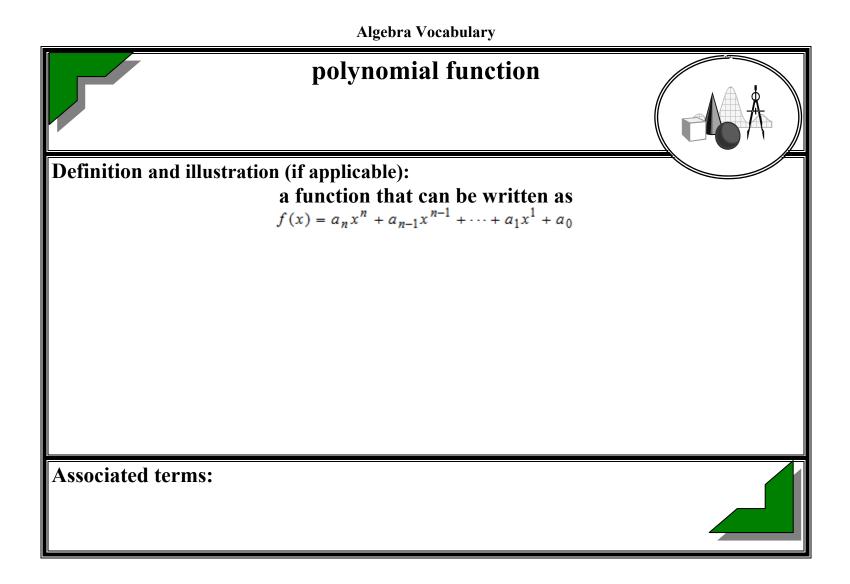
Definition and illustration a monomial is a produc	monomial (if applicable): t of constants and variables; a 32 xy <sup>2</sup> z <sup>5</sup> , 2xy, x <sup>2</sup> yz, 5	polynomial with one term
Associated terms:		

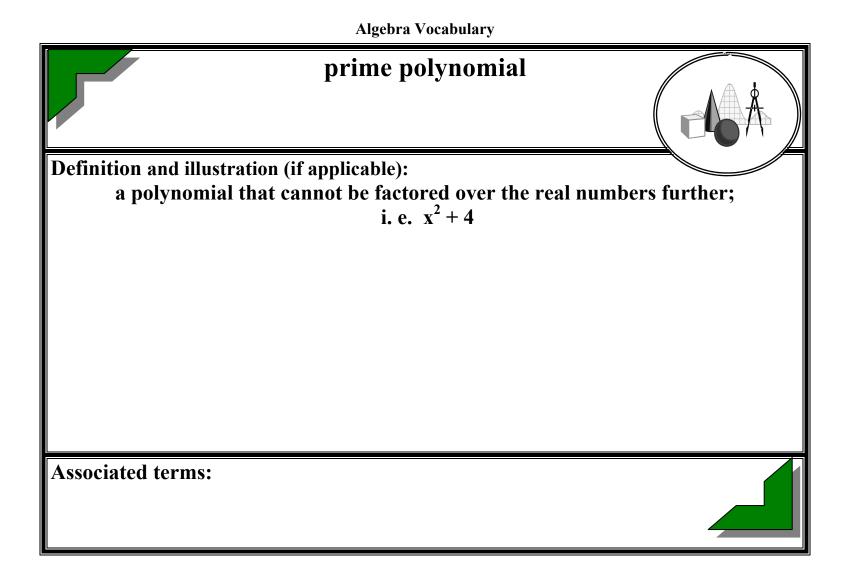


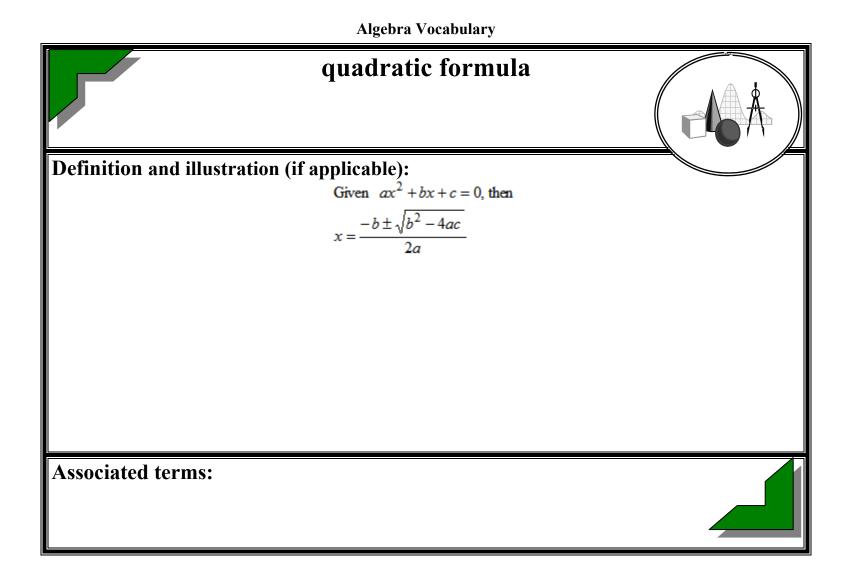
outlier	
Definition and illustration (if applicable): a value in a data set that is much higher or lower than the rest; a point which falls more than 1.5 times the interquartile range above the third quartile or belo the first quartile	
Associated terms:	



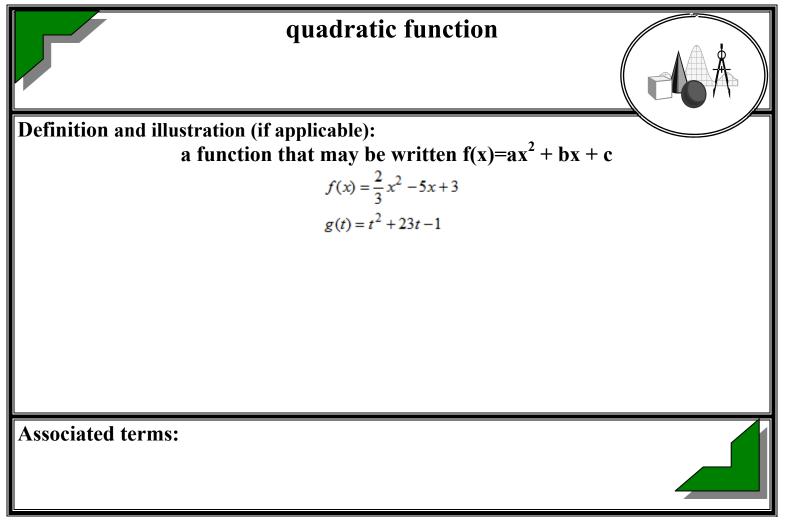


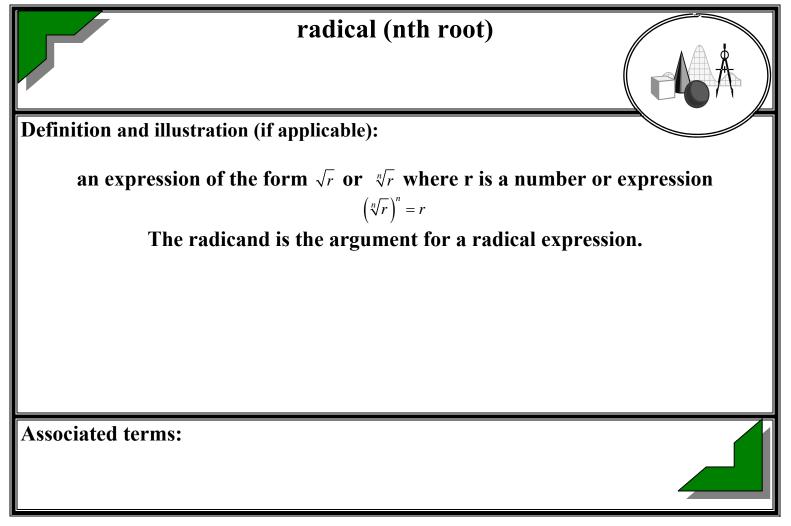




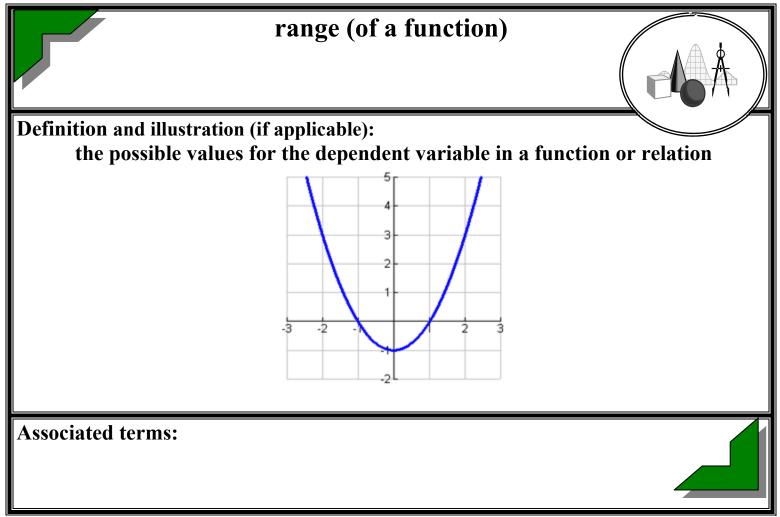


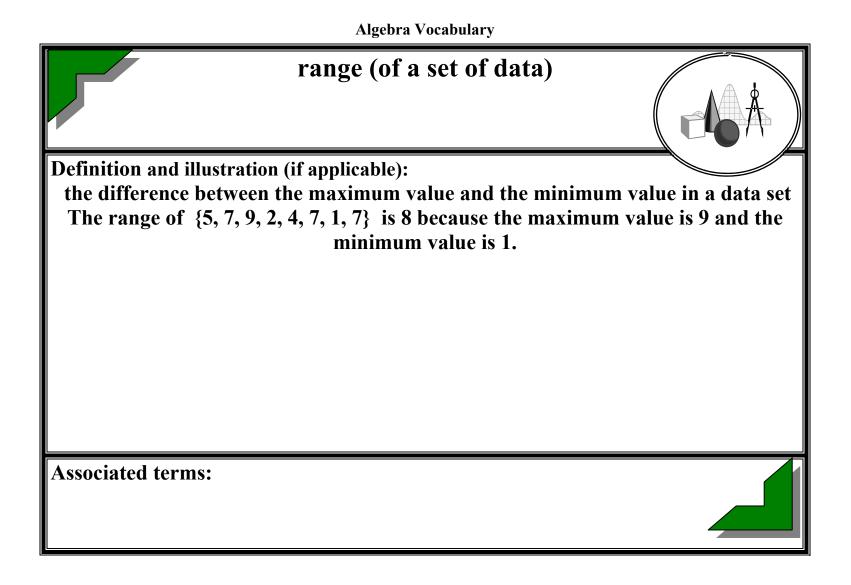


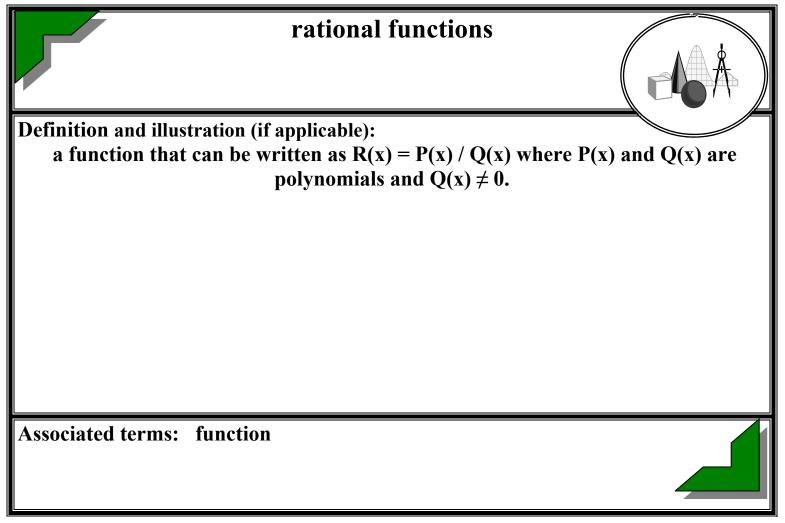


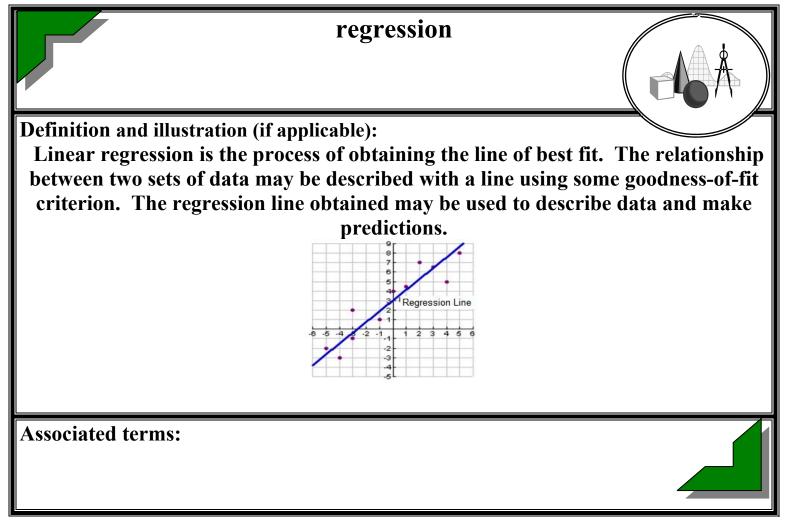




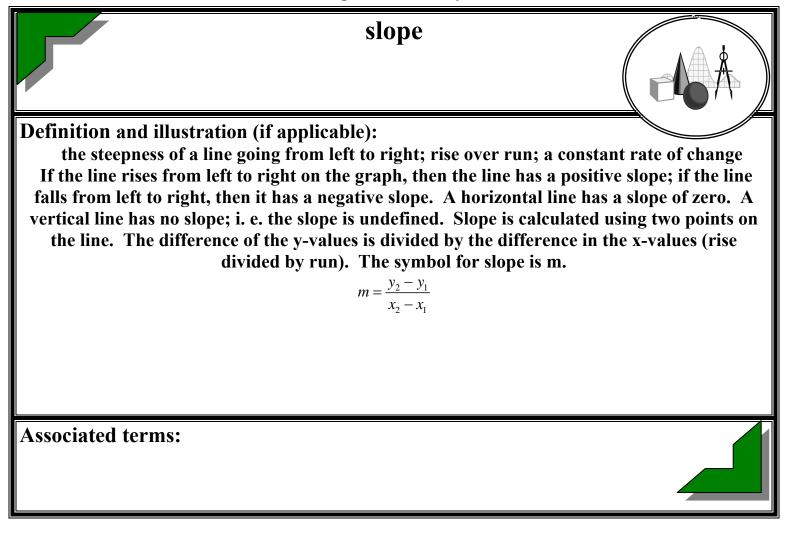








Algebra Vocabulary			
roots (of a polynomial)			
Definition and illustration (if applicable):			
A root of a polynomial is a number x such that P(x)=0. A polynomial of degree n has n roots.			
Associated terms: Fundamental Theorem of Algebra			



Definition and illustration a	trinomial	
Associated terms:		

