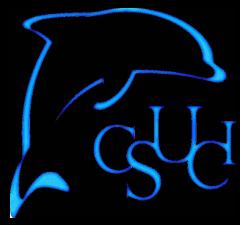
What is Algebra



Algebra Basics	History	Laws for Real Numbers	Stupid questions	Polynomials
100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400

Math Teachers
Math Rocks

Player A

Home Page
GameBoard
Full Screen
Quit

Algebra Basics for 100.

Variables x, y, z usually represent:

a. Days of the week

b. People you know

c. Calories

d. Time

e. Unknown numbers

Math Teachers
Math Rocks

Home Page

GameBoard

Full Screen

Quit

Algebra Basics for 200.

n is usually used to symbolize

a. a name
b. a coefficient
c. a fraction
d. a natural number
e. a complex number

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

Algebra Basics for 300.

a, b, c, d usually symbolize

a values

b functions

c variables

d constants

e parabolas

Math Teachers
Math Rocks

Home Page

GameBoard

Full Screen

Quit

Algebra Basics for 400.

Which of the following is not an algebraic operation?

a Addition

b Multiplication

c Division

d Subtraction

e Solving

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

History for 100.

"Algebra = Calculating by Balancing" in :

a Latin

b Greek

c French

d Arabic

e English

Math Teachers
Math Rocks

Home Page

GameBoard

Full Screen

Quit

History for 200.

Algebra does NOT deal with

a. algebraic expressions
b. linear equations
c. quadratic equations
d. polynomials
e. differential equations

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

History for 300.

Which of the following equations is not algebraic?

a $0 = 4x - 4y + 3z$

b $0 = 4x^2 - 4x + 3$

c $x^2 + y^2 = 1$

d $\cos x = 1$

e $0 = x^3 - 4x^2 - 4x + 3$

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

History for 400.

Which of the following curves is not studied by algebra?

a. a line
b. a parabola
c. a cubic curve
d. a spiral
e. a hyperbola

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

Laws for Real Numbers for 100.

The equation $a + b = b + a$ is called

a. Addition Property

b. Commutative Property of Multiplication

c. Commutative Property of Addition

d. Associative Property

e. Easy Property

Math Teachers
Math Rocks

Home Page

GameBoard

Full Screen

Quit

Laws for Real Numbers for 200.

The equation $ab = ba$ is called

a. Multiplication Property
b. Symmetry Property
c. Cumulative Property of Multiplication
d. Associative Property
e. Commutative Property of Multiplication

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

Laws for Real Numbers for 300.

The equation $a(b+c) = ab + ac$ is called

a. Multiplication Law for Three Numbers

b. Parenthesis Law

c. Distributive Law

d. Associative Law

e. Commutative Law

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

Laws for Real Numbers for 400.

The equation $a(bc) = (ab)c = abc$ is called

a. Multiplication Property for Three Numbers

b. Parenthesis Property

c. Associative Property of Addition

d. Associative Property of Multiplication

e. Commutative Property of Multiplication

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

Stupid questions for 100.

0 is called an identity for addition, because $a + 0 =$

a	0
b	1
c	a
d	10
e	$10a$

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

Stupid questions for 200.

1 is called an identity for multiplication, because it satisfies $a \cdot 1 =$

a	1
b	$1/a$
c	0
d	a
e	a_1

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

Stupid questions for 300.

a^{-1} is called and an inverse element for a, because $a \times a^{-1} =$

a	a
b	a^2
c	1
d	0
e	$1/a$

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

Stupid questions for 400.

An equal sign in means

a the equation is always true

b the equation is true if all variables are zero

c the equation is true for any values substituted for variables

d the equation is true for integers

e the equation is true only for numbers that solve the equation

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

Polynomials for 100.

The degree of $y = -6x^4 + 3x^3 + 2x^2 + 7x + 2$

a 6

b -6

c 2

d 4

e 3

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

Polynomials for 200.

Let $y = 3x^3 + 2x^2 - 7x - 5$. when $x = 0$ then $y = ?$

a	2
b	3
c	-7
d	-5
e	0

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

Polynomials for 300.

The graph of $y = -2x^2 + 7x + 2$ is:

a. a line

b. a hyperbola

c. a cubic curve

d. a parabola

e. a point

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit

Polynomials for 400.

Let $y = -5x^2 + 7x + 2$. Then when x is very large

a $y = 0$

b y is very small

c y is constant

d y is negative

e y is very large positive

Math Teachers
Math Rocks

Home Page
GameBoard
Full Screen
Quit