Simply Essay, Research Paper

Put

Math Like This

Song:

Chorus

I never knew there was a

Math like this before

Never had someone to show me math

Math like this before

Verse 1

I?m glad that Petro showed me

How to graph equations so I can see

That finding rational zeros can be easy

Polynomials were such a boo hoo

Until Petro showed me how to

Using the rational root theorem was what I had to do

And that?s why I say

Chorus

Verse 2

The leading coefficient is An

The number with the highest exponent

Ao?s the number with no variable yeah, yeah (2x)

Factors of Ao are all in P

Those of An are in q you see

+ or ? p over q are possible zeros

So now I hope you understand

Chorus

Hatch match ? ch.4 vocabulary

Match the vocabulary terms in Column A to their correct definitions in Column B.

Column a column b

Root A. an inequality of the form

Y >ax + bx +c

Complex number B. any number that can be

Written in the form in the

Form a+bi

Degree C. a solution of the equation

P(x)=0

Polynomial equation D. a shortcut for dividing a

Polynomial by a binomial

Zero E. the variable with the

Greatest exponent

Quadratic inequality F. a value of x for which

f(x)=0

Synthetic division G. a polynomial that is set

equal to zero

Discriminant H. the express under the

radical sign in the

quadratic formula

Who am I ?

Write the proper term to the following descriptions in the space provided.

I?m the formula x = -b + b ? 4ac / 2a, that gives the roots of the quadratic equation of the form ax + bx +c , with a = 0. Don?t you know me by now ? I?m none other than the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

My name seems a lot more complicated than I really am. I provide a means for dramatically lowering the number of rational values that you might test to find rational roots of a polynomial equation with integral coefficients. My formula is + or ? P over q. I?m the notorious \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

I am in the family of complex numbers. That is , combined with my sibling , Real numbers. I can often be the root of a polynomial function. My definition is the form of a + bi where b is not equal to zero and the imaginary unit is i. I?m simply an\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I?m in the quadratic formula . Actually, I?m the expression under the radical sign expressed as b ? 4ac. I am the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , the one who tells the nature of the roots of the quadratic equation.

MR. RADIAN

There you go again , Mr. Radian!

Constantly making my head spin!

Always making me switch from degrees just for you to your best,

Then almost always making me fail a test!

There you go again , Mr. Radian!

When I?m using you, I don?t seem to win!

? What?s the sine of 90 ??, you consistently ask !

Maybe it?s because you know I?ll barely pass!

There you go again , Mr. Radian!

You really make it hard for me to contend!

? The tangent of 180 is 0!?, you say

But that?s okay because I?m gonna beat you today!!

Here I come again , Mr. Radian!

To quit now would be a sin!

So I?ll try and try , getting help from my friend

Until I have My VICTORY in the end!!!!

Trig Is Your Life!

Find the hidden terms in the puzzle.

SMLANOITARZKAP

FZEROGPHOJLMQI

CDWLCTDSEAITUP

ERIVXLYFNMCBOT

NTBSJZSIAI JLHN

TEKOCTMGTZYDUE

RNGZHRICVNRANM

AIWPENIOOPOIEG

LSMTAUTMIXOBOS

AOORXNIPIKTJFS

NCYSJATLWNZCPX

GVDKLQRELEAKGL

LBXCUSOXBNINQB

EWNAIDARUIZLTZ

ZSECTORVYSXDRO

COMPLEX RADIAN

DISCRIMINANT COSINE

IMAGINARY COTERMINAL

POLYNOMIAL CENRAL ANGLE

RATIONAL SECTOR

ROOT SEGMENT

ZERO

ANGLE MANGLE TANGLE

Match the congruent values.

Hatch match ? ch. 5 vocabulary

Match the vocabulary terms in Column A to their correct definitions in Column B.

Column A column b

Radian A. the triangular law expressed as

a=b+c-2ab cos B

Angle of Depression B. the triangular law expressed as

A / sin a=b / sin b= c / sin c

Linear Velocity C. distance traveled per unit time

Law of Cosines D. the change in the central angle

with respect to time as an

object moves along a circular

Law of Sines path

Central Angle E. the angle between a

horizontal line and the line of

sight from the observer to an

Coterminal Angles object at a lower level

Angular Velocity F. two angles in standard

positions that have the same

terminal side

G. the measure of a central

angle whose sides intercept

an arc that is the same length

as the radius of the center

H. an angle whose vertex lies at

the center of a circle

Mines Of Sines

Make your way through the Sine Mines to Petro?s Classroom, going only through sines that equal either 1 or 0.

Table of contents

Math Like This

Mr. Radian

Trig Is Your Life!

Angle Mangle Tangle

Mines Of Sines

Hatch Match Chapter 4

Hatch Match Chapter 5

Who Am I ?

Corrected Quiz Problems: Chapter 4, Quiz B

Answer keys

Corrected problems:

Chapter 4, Quiz B

Problems 1 & 3