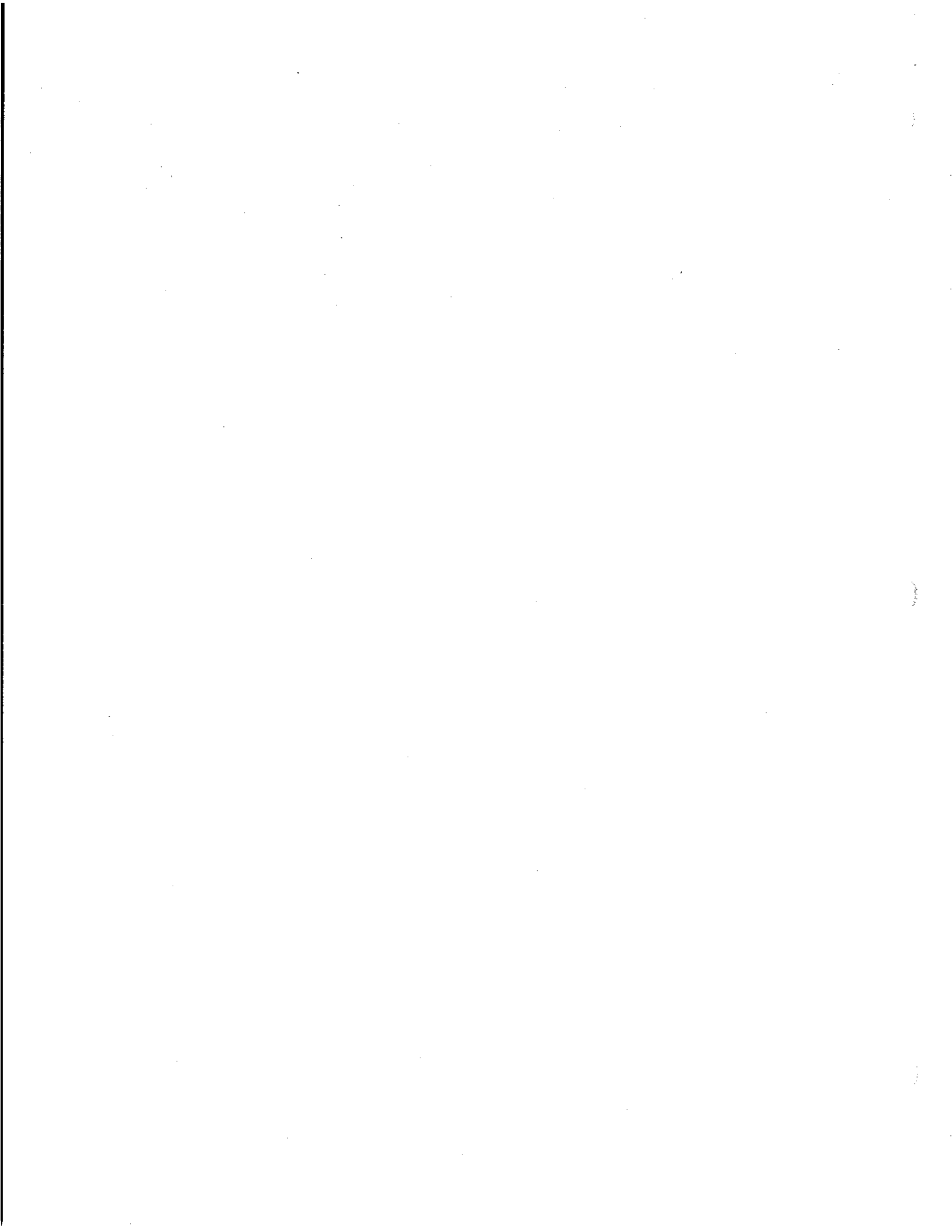




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The Twelve Days of Factoring

Lyrics and Performance by Vicki Young
Melody: "The Twelve Days of Christmas"

On the first day we factored,
My teacher said to me:
"The answer is a product you'll see."

On the second day we factored,
My teacher said to me:
"Find the GCF and
The answer is a product you'll see."

On the third day we factored,
My teacher said to me:
"Look for perfect squares,
Find the GCF and
The answer is a product you'll see."

On the fourth day we factored,
My teacher said to me:
"Four terms you must group,
Look for perfect squares,
Find the GCF and
The answer is a product you'll see."

On the fifth day we factored,
My teacher said to me:
"Are your factors prime?
Four terms you must group,
Look for perfect squares,
Find the GCF and
The answer is a product you'll see."

On the sixth day we factored,
My teacher said to me:
"Three terms use reverse FOIL,
Are your factors prime?
Four terms you must group,
Look for perfect squares,
Find the GCF and
Your answer is a product you'll see."

On the seventh day we factored,
My teacher said to me:
"Key numbers help you factor,
Three terms use reverse FOIL,
Are your factors prime?
Four terms you must group,
Look for perfect squares,
Find the GCF and
The answer is a product you'll see."

On the eighth day we factored,
My teacher said to me:
"To check, use FOIL/distribute,
Key numbers help you factor,
Three terms use reverse FOIL,
Are your factors prime?
Four terms you must group,
Look for perfect squares,
Find the GCF and
The answer is a product you'll see."

On the ninth day we factored,
My teacher said to me:
"Quadratics have two answers,
To check, use FOIL/distribute,
Key numbers help you factor,
Three terms use reverse FOIL,
Are your factors prime?
Four terms you must group,
Look for perfect squares,
Find the GCF and
The answer is a product you'll see."

On the tenth day we factored,
My teacher said to me:
"Solve factors set to zero,
Quadratics have two answers,
To check, use FOIL/distribute,
Key numbers help you factor,
Three terms use reverse FOIL,
Are your factors prime?
Four terms you must group,
Look for perfect squares,
Find the GCF and
The answer is a product you'll see."

On the eleventh day we factored,
My teacher said to me:
"It's time to take your test now,
Solve factors set to zero,
Quadratics have two answers,
To check, use FOIL/distribute,
Key numbers help you factor,
Three terms use reverse FOIL,
Are your factors prime?
Four terms you must group,
Look for perfect squares,
Find the GCF and
The answer is a product you'll see."

On the twelfth day we factored,
My teacher said to me:
"Your grade is 100 you'll see!"

<http://www.mscc.cc.tn.us/webs/vyoung/songs/integer.html>

Factor

Lyrics and Performance by Vicki Young
Melody: "I've Been Working on the Railroad"

I've been looking for divisors
Any way I can.
I want to find a pair of factors:
Multiplier, multiplicand.
Can't you see this as a product?
Divided into parts.
You can even check your answer:
Multiply back to the start!

Factor 'til you drop!
You're not allowed to stop
'Til farther you can't go-oh-oh!
Factor all the time,
'Til every factor's prime;
Show us what you know!

Lines

Lyrics and Performance by Vicki Young
Melody: "Old MacDonald Had a Farm"

There are four parts to every line,
You must remember these:
Points, slope, equation, graph,
And keep them separate, please!

Chorus:

With one point here and one point there,
Here a point, there a point, everywhere a point, point.
Graphing lines is like child's play so let's graph some today!

Oblique lines have x and y ;
The slope gives rise and run.
Just solve for y to start the graph;
Use slope to make it fun!

Chorus

A vertical line, like $x = 3$,
Has slope that's UNDEFINED.
Plot 3 on the x -axis and draw the graph,
An UP and DOWN line.

Chorus

$y = 5$ is a horizontal line;
The slope is ZERO, you see.
Plot 5 on the y -axis and draw the line,
SIDE to SIDE it will be.

Chorus

These songs were written by Mr. Mitchell, a teacher at CHCI, except for the song "ZERO" whose author is unknown.

The Fraction Rap

(Generate Rap noises in the background)

A fraction is a division, so you don't have to make a decision.
You just take the numerator and divide by the denominator,
and then sooner or later, you get a repeater or terminator.
'Cause a fraction is a division so you don't have to make a decision.

That's a rap -2-3-4. That's a rap!

The Bedmas Song

Tune: The Hokey Pokey

You do the brackets first, exponents then take flight.
Next you divide and multiply in order left to right.
You add 'em and subtract 'em as you go and then you shout,
"That's what *BEDMAS* is all about!"
You work in B-E-D-M-A-S order,
Work in *BEDMAS* order.
You work in B-E-D-M-A-S order,
That's what *BEDMAS* is all about!

Mathematical Pi

Tune: American Pie

A long, long time ago,
I can still remember when those numbers used to make me cry.
But I knew if I had my chance,
I could make those figures dance
And in math class, I'd be happy for a while.

But studying made me quiver,
And each math fact would send a shiver
Bad news on my math test,
It sent me on a new quest.
I still recall with greatest pride,
The day my mind was opened wide.

Math's importance got inside,
The day I really tried.
And now I'm singing,
"Why, why don't you learn about Pi
Get ecstatic 'bout quadratics
And let calculus fly,
Take a swig of Trig
And you will be on a high,
Singing this'll be the day that I try."

OH NUMBER PI

To the tune of "Oh Christmas Tree"

Oh, number Pi
Oh, number Pi
Your digits are unending,
Oh, number Pi
Oh, number Pi
No pattern are you sending.
You're three point one four one five nine,
And even more if we had time,
Oh, number Pi
Oh, number Pi
For circle lengths unending.

Oh, number Pi
Oh, number Pi
You are a number very sweet,
Oh, number Pi
Oh, number Pi
Your uses are so very neat.
There's $2\pi r$ and πr^2
A half a circle and you're there,
Oh, number Pi
Oh, number Pi
We know that Pi's a tasty treat.

Mean, Median, Mode
(Tune: Row, row, row your boat)

Mode, mode, mode the most.

Median is in between

Add them up, then divide, and you'll get the mean.

Quadratic Formula Song
(Tune: Frere' Jacques)

Negative B, Negative B

Plus or minus the square root

B squared minus 4ac, B squared minus 4ac

All over 2, all over 2

Adding Integers

Submitted by Misty Laird
To the tune of "Three Blind Mice"

Same signs add,
Same signs add,
Different signs subtract,
Different signs subtract,
If integers you want to combine,
Then this rule I have to remind,
Same signs add,
Different signs subtract.

Multiply (Divide) Integers

Submitted by Nancy Kinder
To the tune of "Where is Thumbkin" or Frere Jacques

Multiply by same signs
Multiply by same signs
The answer is positive
The answer is positive.
Multiply by different signs
Multiply by different signs
The answer is negative
The answer is negative.

** the word multiply can be replaced with the word divide to
use with division of integers

Dividing Mixed #s and Fractions

By Teresa Thomson

To the Tune of the 'Adam's Family' theme song

Give it a flip... (snap, snap)

Give it a flip... (snap, snap)

Give it a flip, Give it a flip, Give it a flip... (snap,snap)

You have to get two fractions

The first one sees no action

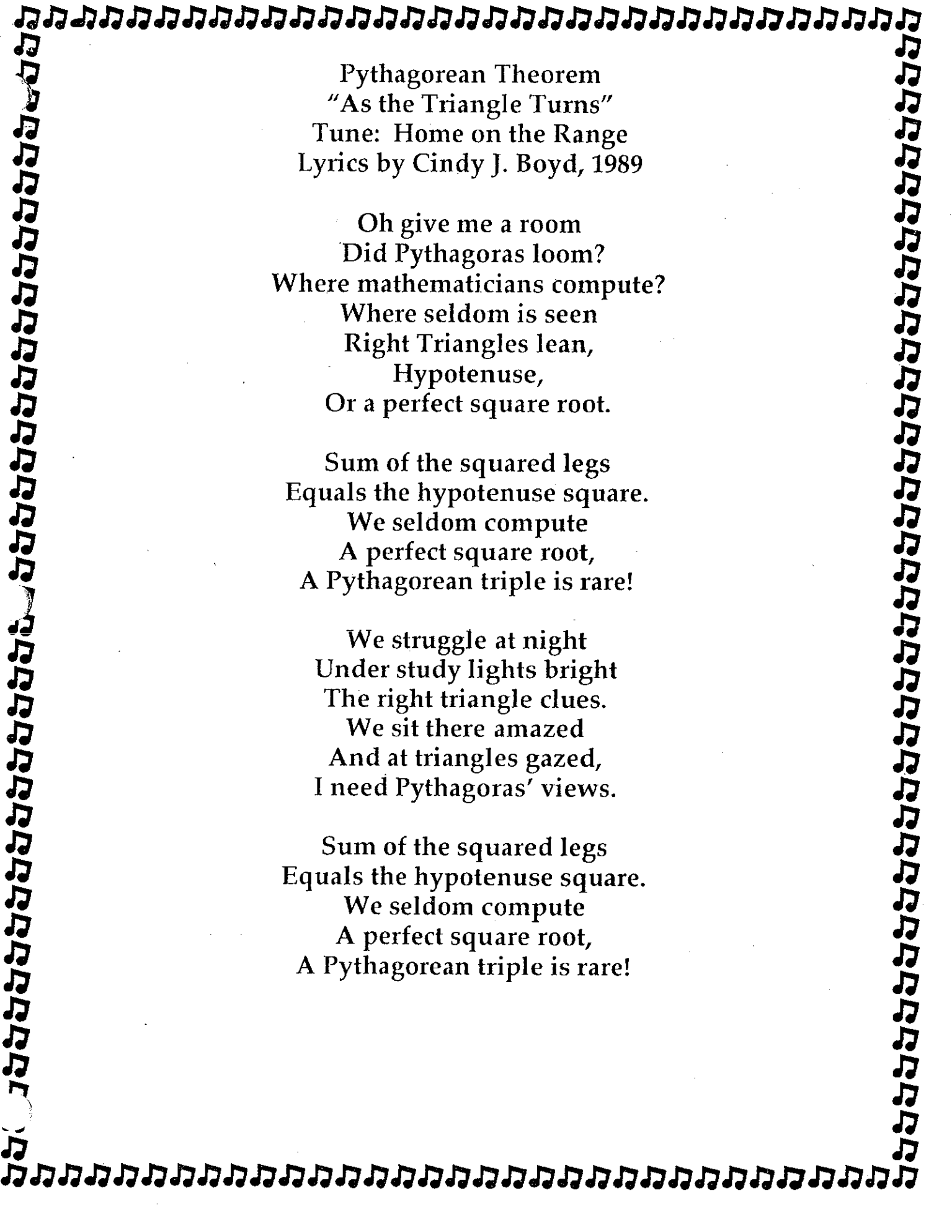
You change the operation

And flip the second one

Give it a flip... (snap, snap)

Give it a flip... (snap, snap)

Give it a flip, Give it a flip, Give it a flip... (snap,snap)

A decorative border consisting of a musical staff with a treble clef on the left and a bass clef on the right, with a series of eighth notes running across the top and bottom of the page.

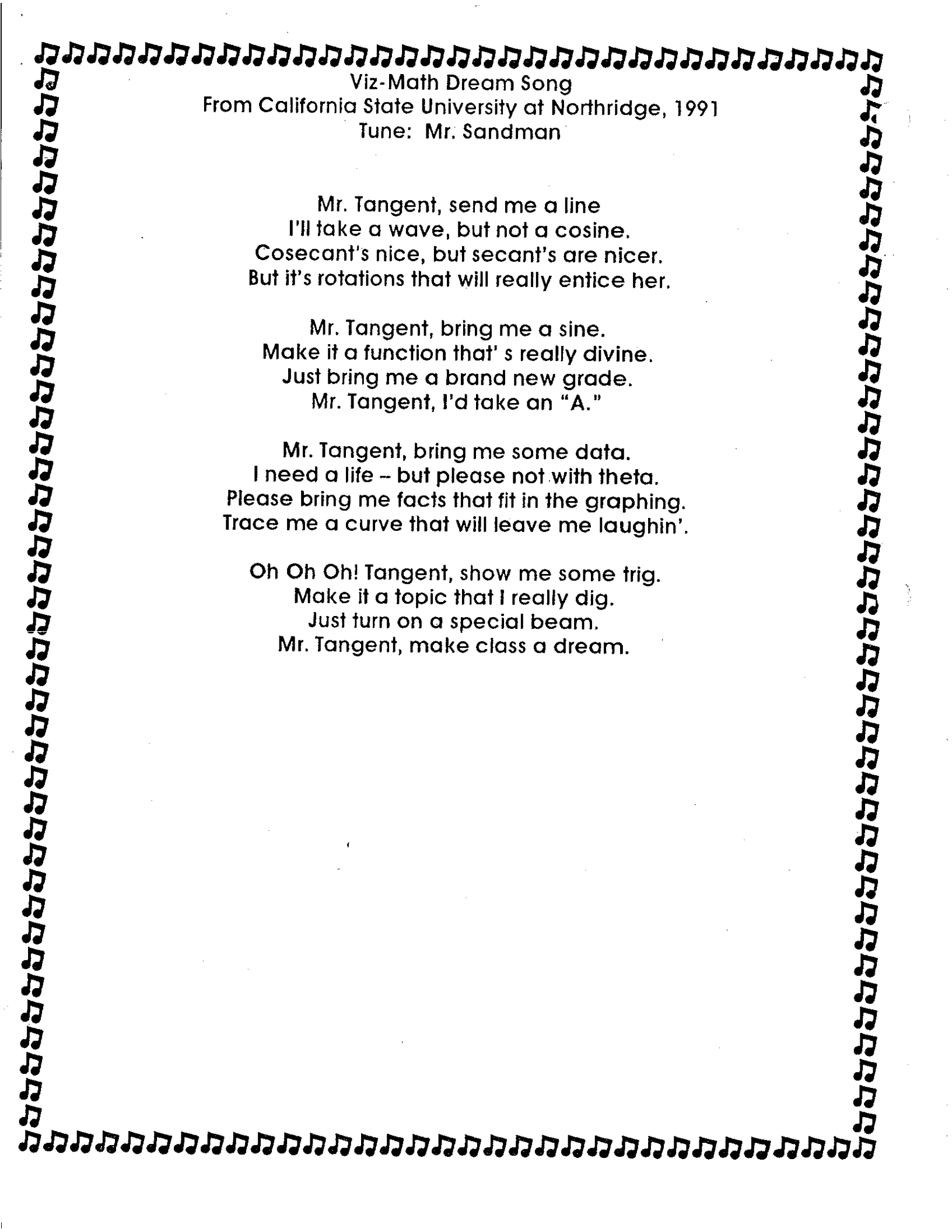
Pythagorean Theorem
"As the Triangle Turns"
Tune: Home on the Range
Lyrics by Cindy J. Boyd, 1989

Oh give me a room
Did Pythagoras loom?
Where mathematicians compute?
Where seldom is seen
Right Triangles lean,
Hypotenuse,
Or a perfect square root.

Sum of the squared legs
Equals the hypotenuse square.
We seldom compute
A perfect square root,
A Pythagorean triple is rare!

We struggle at night
Under study lights bright
The right triangle clues.
We sit there amazed
And at triangles gazed,
I need Pythagoras' views.

Sum of the squared legs
Equals the hypotenuse square.
We seldom compute
A perfect square root,
A Pythagorean triple is rare!

A decorative border consisting of a repeating musical staff pattern with notes and a treble clef, framing the entire page.

Viz-Math Dream Song
From California State University at Northridge, 1991
Tune: Mr. Sandman

Mr. Tangent, send me a line
I'll take a wave, but not a cosine.
Cosecant's nice, but secant's are nicer.
But it's rotations that will really entice her.

Mr. Tangent, bring me a sine.
Make it a function that's really divine.
Just bring me a brand new grade.
Mr. Tangent, I'd take an "A."

Mr. Tangent, bring me some data.
I need a life – but please not with theta.
Please bring me facts that fit in the graphing.
Trace me a curve that will leave me laughin'.

Oh Oh Oh! Tangent, show me some trig.
Make it a topic that I really dig.
Just turn on a special beam.
Mr. Tangent, make class a dream.