Math1010
Math Karaoke Guidelines

For 4-6% extra credit on your final exam, you can put together a karaoke song and sing it for us at our scheduled event on
Tuesday, December 9th, in CTIHB 109, starting at 7:00 p.m.
(Note: The CTIHB is a brand new building. It's not necessarily on the campus maps yet. It's located next to the Sill Center which is east of the Union building.)

The following is a list of guidelines that must be followed in order to get the extra credit.

(1) The song must last at least 1 minute, but not longer than 3 minutes.

(2) You can perform individually or in a group.

(3) You must fill out the form at the end of this document, with your group name and participants' names, and submit it to me by <u>Tuesday, December 2nd</u> to reserve your spot on our agenda. On the night of the performance, you will also need to submit the second form which asks for the words, along with the name of the song's tune to which you are singing the words. (You don't have to type it, neat handwriting is sufficient.)

(4) The words in your song have to be respectful and appropriate for our classroom audience. You can be very funny and irreverent, if you'd like, just make sure it's "clean."

(5) Your song must be about one of the following topics that we've studied in our class to get full credit. If you have a burning desire to cover a topic not listed here, you're welcome to email me the idea and I'll let you know what I think.

<u>Song Topics:</u>

(1) Number Systems—include natural numbers, whole numbers, whole numbers, integers, rational numbers, irrational numbers, and real numbers.

(2) Solving Linear Absolute Value Equations and Inequalities

(3) Lines/Rectangular Coordinate System—include slope formula, slope-intercept form of a line, point-slope form of a line, distance between two points, and the midpoint formula.

(4) Functions and Relations—include definition of functions and relations, domain, range, vertical line test, shifting and reflecting graphs

(5) System of Equations—include how to solve a system of 2 equations (substitution or elimination), the different ways two lines intersect (in one point, in no points because they're parallel, or in infinitely points because they're the same line); how to solve a system of 3 equations (with elementary row operations) and the different ways three planes intersect (one point, no points, same plane, a line)

(6) Rules of Exponents—include all rules in box on page 300 of your book.

(7) Factoring Polynomials—common factors, difference of squares, the fact that the sum of squares is never factorable, the sum of cubes and difference of cubes

(8) Solving Polynomial Equations—see the box on page 352 of your book.

(9) Rational Expressions—Multiplying polynomials, long division of polynomials, simplifying complex fractions

(10) Solving Rational Equations—explain the process

I'm looking forward to a fantastic, creative, fun evening!
Kelly
macarthur@math.utah.edu

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***<u>Submit to Kelly by Tuesday, December 2nd.</u>

Group Name: _____

Instructor Name: _____

Names of all participants in your group:

_____

_____

_____

_____

_____

_____

Math topic covered in your song: _____
     (You can just put which number from song topic list, i.e. 1 through 10.)

Will you be bringing a   CD   *(circle one)*

                             ipod

                             nothing (you're singing acapella)

for the background music to your performance?

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Group Name:_____

Your song Name: _____

Sung to which tune: _____

        originally by: _____

Song words:

_____

_____

_____

_____

_____

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