

# The Quadratic Formula to a familiar tune

## Yankee Doodle

The musical score for 'Yankee Doodle' is presented in four staves. The first staff begins with a treble clef and a 3/4 time signature. The melody is written in a simple, rhythmic style. Chords are indicated above the notes: C, G7, C, G7, C, C7. The second staff continues the melody with chords F, G7, C, F. The third staff has chords C, C7, F. The fourth staff concludes the piece with chords C, G7, and a first ending (1) with a C chord, followed by a second ending (2) with a C chord. The piece ends with a repeat sign.

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Minus B plus or minus the square root of B squared  
Minus 4AC and everything all over 2A

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Minus 4AC and everything all over 2A

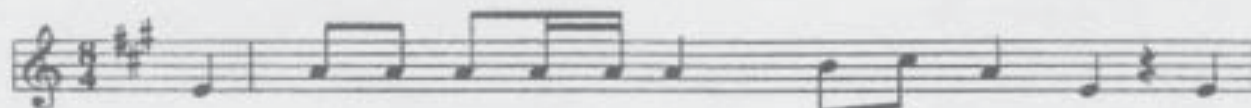
Fath'r and I went down to camp Along with Captain  
Goodwin,  
And there we saw the men and boys As thick as hasty  
puddin'

Yankee Doodle keep it up, Yankee Doodle dandy;  
Mind the music and the step, And with the girls be  
handy.

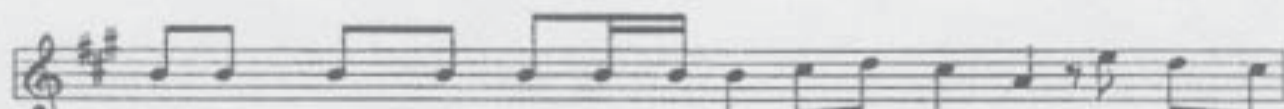
And there was Captain Washington Upon a slapping  
stallion,  
Agiving orders to his men; I guess there was a million.  
Yankee Doodle keep it up, Yankee Doodle dandy;  
Mind the music and the step, And with the girls be  
handy.

# The Quadratic Formula Song

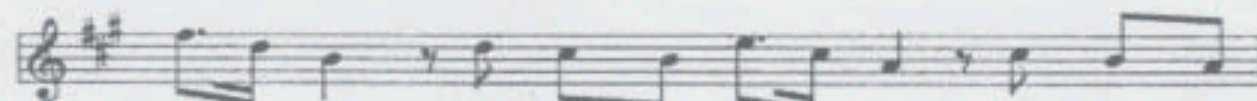
Martha O'Kennon



I have a love - ly e - qua - tion to show you It's  
 Now what if you want to find the - c x - s To  
 Well now you have two - o sam - p - le cho - ces, The  
 But wha - at if yo - u can no - t fac - tor, We  
 Now x is ne - ga - tive b'plus/or nu - mus square root Of  
 I sure do hope that you don't think we're fin - ished! There's  
 If this rad - i - cand i - is zero there's on - ly one root If  
 Now next time that you - u meet an e - qua - tion, If

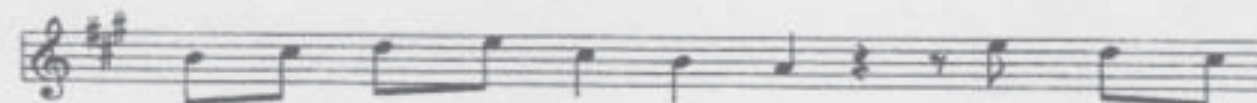


a x squared plus b x plus c e - quals ze - ro It's called qua -  
 find the x - s that wi - ll solve the e - qua - tion I mean the  
 first is FOIL, you know that you have to - o fac - tor, If you can  
 need to find a - no - the - er kind o - of me - thod Qua - dra - tic  
 b squared mi - nus fo - u - r a ti - mes c - ce All o - ver  
 lots and lots more stuff we can say 'fore we're throu - ough! Let's look at  
 big - ger than ze - ro the roots a - arc real a - and two - oo But if it's  
 it's qua - dra - tic you'll know just what to - oo do - oo Qua - drat - ic



dra - a - tic, It's called qua - dra - a - tic, Be - cause the  
 x - - -s, I mean the x - - -s, The x - s  
 fa - ac - tor, If you can fa - ac - tor, Then you can  
 for - mu - la, Qua - dra - tic for - mu - la Qua - dra - tic  
 two - o a, All o - ver two - oo a, Qua - dra - tic  
 b - ce squared mi - nus 4 a - ay c And see what  
 neg - a - tive, But if it's neg - a - tive, The roots arc  
 for - mu - la! Qua - drat - ic for - mu - la! Will al - ways

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high - est power of x is 2 It's called qua -  
 that will make the e - qua - tion true I mean the  
 solve the e - qua - tion P D Q If you can  
 for - mu - la will work for you Qua - dra - tic  
 for - mu - la how we love you! That's mi - nus  
 else it can fore - tell for you! Let's look at  
 nev - er real and that won't do! But if it's  
 do - oo the - e work for you! Qua - drat - ic

# Matharena - Quadratic Equations

Lyrics and Performance by Vicki Young  
Melody: "Macarena"

How do you solve when you have an  $x^2$ ?

You can find the answers - there should always be a pair!

Move terms to one side and start to factor, if you dare!

Do the matharena!

Before you start to factor, put terms into standard form!

Check for common factors, now you're really getting warm!

If you like to factor, now's your chance - you can perform!

Do the matharena!

After you factor, you find your two solutions:

First change the sign (I don't want to cause confusion!)

Put constant over coefficient (I hope I didn't lose you!)

Do the matharena!

If you want to know if solutions are "pretending",

Go to the step where your powers were descending.

Find "a", "b", and "c" and soon we will be ending!

Do the matharena!

Take the opposite of "b" and then divide it by the "a",

This should be the sum of solutions you've found today,