

## Calculus Rhapsody

Escrito por Marta Macho Stadler  
Jueves 16 de Enero de 2020 14:00

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***Bohemian Rhapsody*** (1975) es una magnífica pieza de la mítica banda de rock [Queen](#).

En [I will derive](#) ya habíamos visto una parodia matemática de una conocida canción.  
¿Quieres ver otra?

Musicalmente, no tienen nada que ver con el genial [Freddie Mercury](#), pero el video ***Calculus Rhapsody*** tiene su gracia...

Debajo aparecen las letras de ambas canciones, y no dejes de ir al final de la entrada, donde aparece un original video.

<b><i>Calculus Rhapsody</i></b>
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Phil Kirk & Mike Gospel
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Is this $x$ defined?
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Is $f$ continuous?
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How do you find out?
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You can use the limit process.
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Approach from both sides,
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The left and the right and meet.
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Im a just a limit, defined analytically	
Functions continuous,	
Theres no holes,	
No sharp points,	Or asymptotes.

Any way this graph goes
It is differentiable for me for me.
All year, in Calculus
Weve learned so many things
About which we are going to sing
We can find derivatives
And integrals
And the area enclosed between two curves.

Y prime ooh
Is the derivative of y
Y equals x to the n, dy/dx
Equals n times x

To the n-1.
Other applications
Of derivatives apply
If y is divided or multiplied
You use the quotient
And product rules
And dont you forget
To do the dance
Also ooh (dont forget the chain rule)
Before you are done,
You gotta remember to multiply by the chain

[Instrumental solo]

I need to find the area under a curve
Integrate! Integrate! You can use the integration
Raise exponent by one multiply the reciprocal

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Plus a constant
Plus a constant
Add a constant
Add a constant
Add a constant labeled C
(Labeled C-ee-ee-ee-ee)

Im just a constant
Nobody loves me.
Hes just a constant
Might as well just call it C
Never forget to add the constant C
Can you find the area between f and g
In-te-grate f and then integrate g
(then subtract)
To revolve around the y-axis
(integrate)
outer radius squared minus inner radius squared
(multiplied)
multiplied by pi
(multiply)
Multiply the integral by pi!
Pi tastes real good with whipped cream!
Mama-Mia, Mama-Mia
Mama-Mia let me go.
Pre-calculus did not help me to prepare for Calculus, for Calculus, help me!

So you think you can find out the limit of y?
So you think youll find zero and have it defined
Oh baby cant define that point baby
Its undefined
Goes to positive and negative infinity
Oooh. Oooh yeah, oooh yeah.
Differentiation

Anyone can see
Any mere equation
It is differentiable for me.

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(Any way this graph goes)

***Bohemian Rhapsody***

Queen

Is this the real life?
Is this just fantasy?
Caught in a landslide
No escape from reality
Open your eyes
Look up to the skies and see

I'm just a poor boy (Poor boy)
I need no sympathy
Because I'm easy come, easy go
Little high, little low

Any way the wind blows
Doesn't really matter to me, to me

Mama just killed a man
Put a gun against his head
Pulled my trigger, now he's dead
Mama, life has just begun
But now I've gone and thrown it all away

Mama, ooh
Didn't mean to make you cry
If I'm not back again this time tomorrow
Carry on, carry on as if nothing really matters

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Too late, my time has come
Sends shivers down my spine
Body's aching all the time
Goodbye, everybody
I've got to go
Gotta leave you all behind and face the truth
Mama, ooooooh (Anyway the wind blows)
I don't want to die
Sometimes wish I'd never been born at all

[Guitar Solo]
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I see a little silhouette of a man
Scaramouch, Scaramouch, will you do the Fandango
Thunderbolt and lightning, very, very frightening me
(Galileo) Galileo (Galileo) Galileo, Galileo Figaro
Magnifico-o-o-o-o
I'm just a poor boy nobody loves me
He's just a poor boy from a poor family
Spare him his life from this monstrosity

Easy come, easy go, will you let me go?
Bismillah! No, we will not let you go
Let him go
Bismillah! We will not let you go
Let him go
Bismillah! We will not let you go
Let me go (Will not let you go)
Let me go (Will not let you go) (Never, never, never, never)
Let me go, o, o, o, o
No, no, no, no, no, no, no
(Oh mama mia, mama mia) Mama Mia, let me go
Beelzebub has the devil put aside for me, for me, for me!

So you think you can stone me and spit in my eye
So you think you can love me and leave me to die
Oh, baby, can't do this to me, baby
Just gotta get out, just gotta get right outta here

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[Guitar Solo]
(Ooh yeah, Ooh yeah)

Nothing really matters
Anyone can see
Nothing really matters
Nothing really matters to me

Any way the wind blows...
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¿Conoces esta divertida versión de *Bohemian Rhapsody* de [Los Teleñecos](#) ?

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