

## BIOGRAPHY

Nghi H Nguyen graduated as Civil Engineer in 1957 from The Phu Tho University of Technology, Saigon, S. Vietnam. At that time, most of his math teachers were french professors who guided him with french math concept and practices. He had been working for many year as Director of Planning and Training under The National Land Bureau of S. Vietnam.

He immigrated to USA in 1990. and began his work in 1993 as a high school math teacher aid, until he retired in 2004.

During the teaching period, he had discovered that, even though being taught for century, math teaching materials do need to be improved. He relentlessly worked himself to propose some improvements in math teaching materials.

Specifically, through many books and math articles he had written and published on social media, he presented some of his main proposals:

- To improve math skills of American high school students, the basic method of Transposing in solving equations should be introduced in pre-algebra level. In his articles, being posted on social media, he had demonstrated the advantages of the Transposing Method that has been very popular in the whole world.

- In the field of Trigonometry, he introduced the French concept to select the arc  $x$  as variable instead of the angle  $x$  (as we do here), that makes the whole trig study more convenient, visual, and less absurd. He has written many posted trig articles on Google, and Bing, explaining how to solve trig equations and inequalities. He did co-author a trig book in 2005 titled "Solving trig equations and inequalities" with Trafford Publishing Co.

- He invented and posted on social media a new method to solve quadratic equation called the "Transformation Method".

- He invented and posted an improved quadratic formula called "The quadratic formula in graphic form"

- He invented and published a new method to solve systems of quadratic inequalities by using the Double Number Line.

- He posted his 3,900 answers to math questions asked by students, domestic and from the whole world, on the web "Nghi N. on Socratic.org" in Google Search. The number of students he may have helped has reached the huge number of more than 12 millions.

Recently, he posts on The Mathematics Magazine an innovative method to solve complex trig inequalities by using the number unit circle, called the "Nghi Nguyen Method"(Feb. 01, 2021)