

# Lecture Module - Nonlinear Equations

ME3001 - Mechanical Engineering Analysis

Mechanical Engineering  
Tennessee Technological University

## Topic 4 - The Secant Method

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- What is Secant?
- Modified Newton-Raphson
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- A Better Hammer!

# What is Secant?

What does **secant** mean?

The Newton-Raphson method is not **purely numerical**, why?

- The Equation
- The Derivation

How can we avoid this issue?

# What is Secant?

The **secant** method is a modified version of the Newton-Raphson method.

What are the benefits?

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