

## ABSTRAK

**Nama** : Abdul Hafidz Albaihaqi  
**Jurusan** : Matematika  
**Judul** : Penerapan Metode Snake Oil pada Bilangan Fibonacci, K-Fibonacci, Pell, K-Lucas, Lucas, dan K-Lucas, untuk Membuktikan Identitas Kombinatorial.

Pada skripsi ini, akan ditunjukkan metode snake oil dapat diterapkan pada bilangan Fibonacci, k-Fibonacci, Pell, k-Pell, Lucas, dan k-Lucas untuk membuktikan identitas kombinatorial. Diketahui, barisan Fibonacci, k-Fibonacci, Pell, k-Pell, Lucas dan k-Lucas yang didefinisikan secara rekursif akan dibentuk menjadi fungsi pembangkit, setelah itu dengan menerapkan metode snake oil pada bilangan Fibonacci, k-Fibonacci, Pell, k-Pell, Lucas, dan k-Lucas, maka dapat membuktikan identitas kombinatorial.

**Kata kunci** : *Barisan Fibonacci, Barisan k-Fibonacci, Barisan Pell, Barisan k-Pell, barisan Lucas, Barisan k-Lucas, Formula Binet, Fungsi Pembangkit, Metode snake oil.*



## ABSTRACT

**Name** : Abdul Hafidz Albaihaqi  
**Study Programme** : Matematika  
**Title** : Aplication of the Snake Oil in a Number Fibonacci,  
K-Fibonacci, Pell, K-Lucas, Lucas, and K-Lucas,  
to Prove the identity of the combinatorial

For this literature, showed that snake oil method can be applied on a number Fibonacci, k-Fibonacci, Pell, k-Pell, Lucas, and K-Lucas to prove the identity of the kombinatorial. Known, the Fibonacci sequence, k-Fibonacci, Pell, k-Pell, Lucas, and k-Lucas is defined recursively formed into generation functionology. Show by Applying the method of snake oil in a number Fibonacci, k-Fibonacci, Pell, k-Pell, Lucas, and k-Lucas, then can be proved the identity combinatorial.

**Kata kunci** : *Fibonacci sequence, k-Fibonacci sequence, Pell sequence, k-Pell sequence, Lucas sequence, k-Lucas sequence, Binet Formula, Generation Function, Snake oil method.*



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