

Abstract

Fractals become the most intriguing and fascinating area of study because of their singularity and self-similarity. Researchers have recently employed a variety of terms to create fractals for complex functions $x^n + c$. In this study, certain fixed point findings for a complicated complex function $x^n + c$ are developed. We established escape criteria for $T(x) = x^n + c$ via M, M* and K iterative schemes. Additionally, utilising our proposed escape criteria, we build the Julia and Mandelbrot sets. Our fractals are enhanced using a fractals system, the Julia and Mandelbrot sets we produced are significantly more intriguing than those found previously. Also we analyze comparison of pixels of K, M, M*, NOOR and SP iterations.