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**Abstract**

Recently, we investigated the Fibonacci polynomial recurrences  $a_{n+1} = a_n(\Delta^2 a_n^2 + 3)$ , where  $a_n = a_n(x)$ ,  $a_0 = f_e$ ,  $e$  is an even positive integer,  $\Delta = \sqrt{x^2 + 4}$ , and  $n \geq 0$ ; and  $a_{n+2} = a_{n+1}(\Delta^2 a_n^2 + 2)$ , where  $a_1 = f_{2k}$ ;  $k$  is an odd positive integer; and  $n \geq 1$  [10]. We also studied their Lucas counterparts:  $a_{n+1} = a_n(a_n^2 - 3)$ , where  $a_0 = l_e$ ;  $e$  is an even positive integer; and  $n \geq 0$ ; and  $a_{n+2} = a_{n+1}(a_n^2 - 2) - 2$ , where  $a_1 = l_{2k}$ ;  $a_2 = l_{4k}$ ;  $k$  is an odd positive integer; and  $n \geq 1$  [10]. This article focuses on the Jacobsthal, Vieta, and Chebyshev extensions of these charming recurrences and their implications.