

1086-11-2644 **Diane Fenton*** (fentond@ucalgary.ca). *Divisibility properties of fourth order recurrent sequences.*

Divisibility properties of second order recurrent sequences are well studied and many of their properties are well understood owing to the theory of Lucas and Lehmer. For example, any prime number will divide some Fibonacci number. Analogous properties of fourth order sequences are more complicated and less studied. This talk will discuss some of these interesting properties based on work of R.K. Guy and H.C. Williams. (Received September 25, 2012)