

If  $m$  is even and  $n$  odd, then

$$\left| \frac{m}{2}, 0 \right| \Delta \left| 0, \frac{n-1}{2} \right| \quad \text{and} \quad K \left( \frac{m}{2}, 0 \right) \nabla K \left( 0, \frac{n-1}{2} \right).$$

Thus we have shown that  $m > n$  if and only if  $f(m) \nabla f(n)$ .

The operations  $\oplus$ , of addition and  $\otimes$ , of multiplication are defined on  $B$  as follows:

$$(8) \quad K(a,b) \oplus K(c,d) = \begin{cases} K(a+c, b+d) & \text{if } m,n \text{ are even} \\ K(b+d+1, a+c) & \text{if } m,n \text{ are odd} \\ K(b+c, a+d) & \text{if } m \text{ is even, } n \text{ odd} \\ K(a+d, b+c) & \text{if } m \text{ is odd, } n \text{ even} \end{cases}$$

$$K(a,b) \otimes K(c,d) = \begin{cases} K(2(a-b)(c-d), 0) & \text{if } m,n \text{ are even} \\ K(c,d+2(a-b)(c-d)+b-a) & \text{if } m,n \text{ odd} \\ K(a+2(a-b)(d-c), b) & \text{if } m \text{ is even, } n \text{ odd} \\ K(c+2(a-b)(d-c), d) & \text{if } m \text{ is odd, } n \text{ even} \end{cases}$$

where  $m, n$  are the positive integers corresponding to  $(a, b)$  and  $(c, d)$ , respectively in (4).

It is easy to show that

$$f(m+n) = f(m) \oplus f(n) \quad \text{and} \quad f(mn) = f(m) \otimes f(n).$$

A treatment similar to that above for arithmetic and geometric progressions can be found in [1].

#### REFERENCE

1. M. D. Darkow, "Interpretations of the Peano Postulates," *Amer. Math. Monthly*, Vol. 64, 1957, pp. 270-271.

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## A FIBONACCI CURIOSITY

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In the Fibonacci sequence  $F_0 = 0, F_1 = 1, \dots, F_n = F_{n-1} + F_{n-2}$ ,

$$\begin{array}{l} \text{the sum of the digits of } F_0 = 0 \\ \text{" " " " " " } F_1 = 1 \\ \text{" " " " " " } F_5 = 5 \\ \text{" " " " " " } F_{10} = 10 \\ \text{" " " " " " } F_{31} = 31 \\ \text{" " " " " " } F_{35} = 35 \\ \text{" " " " " " } F_{62} = 62 \\ \text{" " " " " " } F_{72} = 72 \end{array}$$

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