

CALCULUS  
Summation  
NEW

NEW 0070-1. Compute  $\Delta(-7n^3 + 2n^2 + 3n + 99)$ .

NEW 0070-2. What is the degree, in  $n$ , of  $\Delta(-222n^{333} + 43n^{53} + \pi n^8 - 7n - 2^{5000})$ ?

NEW 0070-3. Find an expression  $a_n$  of  $n$   
s.t.  $\Delta a_n = \sqrt{2}n^3 + n^2 + n + 1$ .

NEW 0070-4. What is the degree, in  $n$ , of  
a polynomial expression  $b_n$  of  $n$   
s.t.  $\Delta b_n = \sqrt{3}n^{77} + 15n^{85} - n^{33} + n^3 - n + 6$ ?