where

$$V_1 = 3, \quad V_2 = 7, \quad \text{and} \quad V_{n+1} = V_n + V_{n-1} .$$

PROBLEMS

1. Determine the polynomial for which f(1) = -4; f(2) = 22; f(3) = 100; f(4) = 200; f(5) = 532; f(6) = 946; f(7) = 1532; f(8) = 2320.

2. The following sequence of values correspond to terms T_1, T_2, etc. of a sequence which is the sum of a polynomial and a Fibonacci sequence: 0, 4, 12, 29, 53, 87, 132, 192, 272, 381. Determine the polynomial and the Fibonacci sequence components.

3. The values: 13, 72, 227, 526, 1023, 1784, 2899, 4506, 6839 include a polynomial component and a geometric progression component. Determine the general form of the term of the sequence.

4. The sequence values: 4, 14, 12, 22, 20, 30, 28, 38, 36, $\cdots$ combine a polynomial and a geometric progression. Determine the general form of the term of the sequence.

5. The sequence values: 7, 19, 45, 109, 219, 395, 653, 1017, 1515 have a polynomial and a Fibonacci component. Determine the general form of the polynomial and find the Fibonacci sequence.

(Solutions to these problems can be found on page 112.)

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CORRECTION

Please make the following changes to "Remark on a Theorem by Waksman," appearing in the Fibonacci Quarterly, October, 1969, p. 230.

On line 1, change "$Q = Q^* \cup \{1\}$" to "$Q^* = Q \cup \{1\}$"

On line 9, change "[2, p. 62]" to "[2, § 62]"

On line 18, change "$\notin V \cap Q$" to "$\in V \cap U$"

On line 20, change "a prime" to "an integer $p \in Q^*$."