Fibonacci Sequences

Determine whether each of these sequences is a Fibonacci-like sequence.

(a) $1, 1, 2, 3, 5, 8, 13, \ldots$

(b) $1, 2, 3, 6, 11, 20, 37, \ldots$

(c) $2, 4, 6, 10, 16, 26, \ldots$

(d) $-1, 3, 2, 5, 7, 12, \ldots$

Find the next four terms in each of these Fibonacci-like sequences.

(a) $2, 5, \_\_\_, \_\_\_, \_\_\_, \_\_\_, \ldots$

(b) $3, 4, \_\_\_, \_\_\_, \_\_\_, \_\_\_, \ldots$

(c) $1, 3, \_\_\_, \_\_\_, \_\_\_, \_\_\_, \ldots$

(d) $-2, 4, \_\_\_, \_\_\_, \_\_\_, \_\_\_, \ldots$

(e) $1.6, 4.3, \_\_\_, \_\_\_, \_\_\_, \_\_\_, \ldots$

(a) The first two terms of a Fibonacci sequence are the first two prime numbers. Find the next four terms in the sequence.

(b) The first two terms of a Fibonacci sequence are the first two triangular numbers. Find the next four terms in the sequence.

(a) Milly think that 70 is in the Fibonacci-like sequence that starts $6, 10, 16, 26, \ldots$ Is Milly correct? Explain your answer.

(b) A Fibonacci-like sequence contains the third term 10. Suggest two possible sequences and give their first five terms.

(c) The sum of the first three terms of a Fibonacci-like sequence is zero. What is the third term?

(d) The first two terms of a Fibonacci-like sequence are a and $2a$. Find the next five terms of the sequence.

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