F. T. Howard and Curtis Cooper Some Identities for r-Fibonacci Numbers,
Fibonacci Quart. 49 (2011), no. 3, 231–243.

## Abstract

Let  $r \geq 1$  be an integer. The r-generalized Fibonacci sequence  $\{G_n\}$  is defined as

$$G_n = \begin{cases} 0, & \text{if } 0 \le n < r - 1; \\ 1, & \text{if } n = r - 1; \\ G_{n-1} + G_{n-2} + \dots + G_{n-r}, & \text{if } n \ge r. \end{cases}$$

We will present several identities and congruences involving r-generalized Fibonacci numbers.