## 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 $\left\{G_{n}\right\}$ is defined as

$$
G_{n}= \begin{cases}0, & \text { if } 0 \leq n<r-1 ; \\ 1, & \text { if } n=r-1 ; \\ G_{n-1}+G_{n-2}+\cdots+G_{n-r}, & \text { if } n \geq r .\end{cases}
$$

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

