1125-VB-2716   **Tom McNamara*** (`thomas.mcnamara@swous.edu`), Mathematics Department, 100 Campus Drive, Weatherford, OK 73096. *Calculations with Generating Functions.* Preliminary report.

Given a sequence a_n, we say that the formal power series $f(x) = \sum a_n x^n$ is the generating function for the sequence a_n. We will show how to create the generating functions for several classes of sequences. We will also indicate how to extend this idea to find generating functions for sequences of functions. (Received September 20, 2016)