1035-37-1729   **Stephen M. Zemyan*** (`smz3@psu.edu`), Department of Mathematics, Penn State Mont Alto, Mont Alto, PA 17237-9799. *Sequences and Cycles of Schwarzian Derivatives.*

Let f be analytic in a domain D, and let Sf denote its Schwarzian derivative. For a given initial function f_1, define a sequence of meromorphic functions by $f_{n+1} = Sf_n$. We produce examples of constant sequences and 2-cycles, i.e., pairs of analytic functions for which $Sf_1 = f_2$ and $Sf_2 = f_1$. We also show how to generate n-cycles for each positive integer n and present methods for representing cycle elements. (Received September 20, 2007)