

1135-VV-1244 **Heather Hunt Elfen*** (elfen@rmu.edu), 6001 University Blvd., 315 John Jay, Moon Township, PA 15108, and **Allison Boldrick** and **Prasanna K. Sahoo**. *A Few Simple Levi-Civita Functional Equations On Groups*.

We present several generalizations of the multiplicative homomorphism functional equation and the Levi-Civita functional equation defined on a non-abelian group. We focus on solving the functional equations

$$\begin{aligned}f(xy) + g(yx) &= 2h(x)k(y) \\f(xy) + f(yx) &= 2f(x) + 2f(y) + 2\lambda f(x)f(y)\end{aligned}$$

defined on an arbitrary semi-group S . (Received September 20, 2017)