8 Explicit right differentiation of functions on G

In Section 3.2 of the paper we describe explicitly the action of the Lie algebra by right differentiation on functions that have the form

$g = nak \mapsto F(na)\,\Phi(k)$

with respect to the Iwasawa decomposition. The functions Φ are the basis functions **Phi** in Section 3 of this notebook; we treat them symbolically. The action on $F(na)$ is described in terms of the right differentiation of $\mathbf{n} \oplus \mathbf{a}$ on NA.

8a. Conjugation by elements of K

8b. Preliminary routines

8c. Interior differentiation

8d. Right differentiation

8e. Some checks of the differentiation formulas

8f. Shift operators