

## 代数宿題14

2015-1-23

1. Let  $\mathfrak{so}_3(\mathbb{R})$  be  $\mathbb{R}^3$  with  $[a, b] = a \times b$ . Compute the Killing form on  $\mathfrak{so}_3(\mathbb{R})$ , and show that it is negative definite.

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