
Corrections and Updates for “A Tour of Representation Theory”

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Exercise 5.1.6: The last sentence in part (b) of this exercise should be changed to: Conclude that e_{-2} , e_{-1} and e_2 generate the Lie algebra \mathfrak{w} . Thanks to Chelsea Walton for pointing out the error.

Exercise 9.3.11: The first sentence of this exercise should be changed to: Assume that $\text{char } \mathbb{k} \neq 2$ and put $H = \mathbb{k}[s, c]/(s^2 + c^2 - 1) \in \text{Alg}_{\mathbb{k}}$, where $\mathbb{k}[s, c]$ is the polynomial algebra.

Section 5.4.3: The definition of the *symbol* of an element in a filtered algebra should be $\dot{x} := x + A_{n-1} \in \text{gr}^n A \setminus \{0\}$ rather than $\dot{x} := x + A_{n+1}$.

Exercises 3.2.5 and 10.3.4: The base field \mathbb{k} should contain a primitive 4th root of unity.