

Character of the Killing

The same proof as the previous one holds if \mathfrak{g} is a real Lie algebra and $\mathfrak{g}^{\mathbb{C}}$ is its complexification.

Character of the Killing

It follows immediately from the above that $\text{tr}(\text{ad } X)$ is real for all $X \in \mathfrak{g}$ and that $\text{tr}(\text{ad } X)$ is purely imaginary for all $X \in \mathfrak{g}^{\mathbb{C}}$. It now only remains to show that $\text{tr}(\text{ad } X)$ is a constant multiple of $\text{tr}(X)$.

Choose a symplectic basis $\{X_i, Y_i\}$ of \mathfrak{g} and complete this to a basis $\{X_i, Y_i, Z_j\}$ of $\mathfrak{g}^{\mathbb{C}}$. Then

$$\text{tr}(\text{ad } X) = \sum_{i=1}^n \text{tr}(\text{ad } X_i)$$

because $\text{ad } X$ is \mathfrak{g} -invariant and $\text{tr}(\text{ad } X)$ is pure imaginary. The identity $\text{tr}(\text{ad } X_i) = \text{tr}(X_i)$ now follows from the fact that $\text{tr}(\text{ad } X_i) = \text{tr}\left(\begin{bmatrix} X_i & \\ & -X_i \end{bmatrix}\right)$. For the last part, the identity $\text{tr}(X_i) = \text{tr}(X_i)$ is well known and is used as follows:

$$\text{tr}\left(\begin{bmatrix} X_i & \\ & -X_i \end{bmatrix}\right) = \text{tr}(X_i)$$

Thus we find indeed $\text{tr}(\text{ad } X) = \text{tr}(X)$.

$$= \text{tr}\left(\begin{bmatrix} X_i & \\ & -X_i \end{bmatrix}\right) = \text{tr}(X_i)$$

The Killing form and Cartan subalgebra

$$\text{tr}(\text{ad } X) \text{ ad } X = \left(\begin{bmatrix} X_i & \\ & -X_i \end{bmatrix}\right)^2 = \text{tr}(X_i)$$

Thus we have immediately proved that $\text{tr}(\text{ad } X) \text{ ad } X$ is a symmetric bilinear form.

$$\text{tr}(\text{ad } X) \text{ ad } X = \text{tr}(X_i) \text{ ad } X$$

$$\text{tr}(\text{ad } X) \text{ ad } X = \left(\begin{bmatrix} X_i & \\ & -X_i \end{bmatrix}\right)^2 = \text{tr}(X_i)$$

Thus $\text{tr}(\text{ad } X) \text{ ad } X$ is a symmetric bilinear form. This bilinear form is called the Killing form and is denoted by $B(X, Y)$.

$$B(X, Y) = \text{tr}(\text{ad } X) \text{ ad } Y = \text{tr}\left(\begin{bmatrix} X_i & \\ & -X_i \end{bmatrix}\right) \text{ ad } Y = \text{tr}\left(\begin{bmatrix} X_i & \\ & -X_i \end{bmatrix}\right) \text{ ad } Y$$

Lesson 14 Factoring Polynomial Expressions Answers

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